

tattgagatg ctcgaaattg acgacacaag ctctgaacaa ttttgaacga caataaatat 300
 attctcggat gttctattga gtcccgtaat atatcgtgct acttccaatt gtaaatggaa 360
 gctcgttaga aattcatatg acaataactt tatac 395

<210> 17230
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 17230

agcttctttt gtaccttgaa taggcaacta actcctcttt caaaaccctg ctatgtgctc 60
 gcgactggcc ctttcttcc ttctgcaact tgagttcact attgctaccc catagagctc 120
 cgcgaaattt gttccggcca tactcttctt tgcgagccct cttggtctct tgatcaaggg 180
 ctcttgcggt aattgcattc tctttccgta acccggcaca ctcttccga acgtgtgtag 240
 cggccaactt gaacttctcc ttggcaagtg ttgccttcc taactcgctt ttgagagctt 300
 ggacttcttc gtgctcttcc ggtgcttcaa cactctcttt gctgacgact gttaacttgg 360
 cgagccaatc taaacct 377

<210> 17231
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 17231

tagcctgctg cgctaagtgc ccagtcaaaa tttcagtttt attttgatgt ttttgtgaaa 60
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 gagggctcct tctacacctt cccaagtcag atttgatctg tctcagttca catctcaaga 180
 agcttgtgag aggtatacaa atattgtggt gcctaggaaa ctactaccag agaggaatgt 240
 gatagtttat tacactgagt tcgacaagtt caaggaggaa cttgagagaa gagactacga 300
 tgaggagttg actgatttta atgacagcag catagacatt ggcattgtga aggaatttta 360
 caccaacctc tacgacctcg aggataaatc acctaaagcag gtgaggggtga gaggtcactt 420

<210> 17232
 <211> 344

<212> DNA
<213> Glycine max

<400> 17232

tatTTTTgag ccaaaatcct gactcaccat aaaccttgac ccaatgtgag aatgcctatc 60
cttatcctcg gaagcaaaat aagaagagaa ggaaaatttc ctatcaacgg ataaaggaga 120
aggaaaattt tcaatcaaag aacaagagaa agaaaatttc caatcaaagg aaaaaagga 180
agcatagaaa tatccaatct aatagtggga gaacgaaata aatgattgaa aggaaattcc 240
caaccaaaga atggggagaaa gtaaaaaaga agaaagctcc tgatcgaaag aaaacataac 300
atatgtgcac agaggtcttt ggaccagacg ataattgaac tata 344

<210> 17233
<211> 260
<212> DNA
<213> Glycine max

<400> 17233

cctttgcatt tcatttatat catacagaat tgaacataca aatgaatccg aagactttct 60
aggcttgtat gggttaggca gccacaatc atgtttttta ggattgaaag cttaggtcat 120
gagagattca tctagaatac cttcactttt tttattcatc ctaccctact cgccttattt 180
agcacttact ttattatttt gacataccac ttattcttct attgtcttac agtttttcta 240
cacagaaaca ttatatacat 260

<210> 17234
<211> 385
<212> DNA
<213> Glycine max

<400> 17234

tagctttata aacaaaaaca tcataaatta aaacataaga aaagagttca attgtatatt 60
tgaattgttt gtgaaatttt tttgacaagt ccaaactttg tctaagacag aagaaatgaa 120
cttttaaaaa gattcatcct aagggtgaata tataaataat tgtgtctagc ttgtagggaac 180
acaatttata aaatacttaa gcaaaaatct ttttgataac ttacaaactg tacaactaaa 240
tctctctttt aattaggggt aagtttacga cgattcaacc ttattttaat gattatcact 300
aagaaaaata atatcatatt aaacacaatt agccaacatt atgtattcca attaatttga 360

ttcttataat accccaattg tttat

385

<210> 17235
<211> 429
<212> DNA
<213> Glycine max

<400> 17235

gacactatag acaactccac gcttaggatt caacattaat taccgtgctt ctttcccact 60
tggtgaatta tatgogactt tatctagatg aaaacgatcg aattctactc cctgcgggat 120
attggattat atctgggccca ccaatcccggt ggaagaatca ttggaaagga tgggaaacaa 180
caccggagga tttgaatgat gagcagacca aaattgagaa tgtagccaaa agcctgtgct 240
ggaacaagct actggagaag gacgatatag ccatttggca gaaagccaag aaccatttgg 300
attgcaaagc caaccgtaag ctctctcaca atctgcctct ctgcaaggca cacagtaacc 360
ctgacacggc ctggtatgtg cttcatattc cattgtccct tgtatttcat tcacgaaata 420
tttccatct 429

<210> 17236
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17236

ttgcttctat ataagcttaa ccattntatc aataaagaca agtggagtnt tattcataaa 60
attagagttt atctctttta tcttagtgag agtgattctc cttaaattctt gagtgattca 120
agaacacctt ggctgtatca aaggactttc acaacctttg tgtgttgccc tcgctggaca 180
gagtgattct ttccttccct tcattctcac ccttgttctt tcaaaccaca attccagaaa 240
atccacctct gcccagaatt atctcgtggc cataaatccc attttaagca ctcaaattaa 300
gtgattcttg agcctaaatt gaatttcaaa acgagacctt tcacctcggt ttggaatcac 360
ctcattggga gccctg 376

<210> 17237
<211> 408
<212> DNA

<213> Glycine max

<400> 17237

tctctagagc taaggatggg aataacttag attaaatttc agtcatccac ctcaacttagc 60
gtgacctcta cgctaagcta gccatagccc atgtgctgag cgagtaacac tcctcgctaa 120
acacatcaac ccccatctat tggttgttgg ggtcccgcta agtgagacat ttgcgctaag 180
acaaaaacct tctctggttg cgcatttatt gaaattaggc taagttagta agctcgctaa 240
gcgcgacatg gtctcccgt aagcgcgtat atgtgctaag cgtaaaagtc tctcaatttg 300
ggctttcatg gtaattatgc taagcgaacc atctcgctat gcctaaaagt ctctttggaa 360
tggcaatcgc gcttaacgag accatcttac taagcgaac ccactact 408

<210> 17238

<211> 713

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17238

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cagcccgcac aatgaatgat gcatgtgata cctgacatac acagactgac gcagatccag 120
actagcttgt taccagctct gctaggcttg agcaccttct gattgcttcg aaggcttggt 180
ctagacctcg aggnactact cttncaccaa gactataacg agctagtcag atcatctcta 240
gacaagggaa ctctcatatt gttactacac aatgacatgg tgctgactaa catacatcac 300
atcgctctag tgaaattcgc agacgtttgt gcataacact gtctcatgag cttccacctc 360
tncagtttgc atgacatgga gagagtgata ctgctcaata cgcaagtgcg ataccattat 420
ctaataatcg acttcgcgtg gcctcggact catatctcga attctctcgt ggacacacgc 480
caaatcatag ctgtgtatat tcagtcatta catcatgtgt acacgtcacc agtctacacg 540
agtatcgtgn tcgatcatgc gtcaatctgt acagtcact aanatacgcc gcgaatagct 600
gtgnatngta ctcatagata tcgtggactc gacgttacgt aatgagcaga catgataacg 660
tattcgatga tgatgcaccg tggaggatac tatgccgacg ctctacgaca ccg 713

<210> 17239

<211> 422

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17239

cagcttattg tgttntatct tcgtattatc ttctcttgta atcttttaag gagaaattta 60
tctaaacagg atccacgtct agaactttac gtgtcttttt tttacaagat aagctgtatt 120
gtcttggggt cgcacccatg ttctcattgt tgggtatcct agtgccaagt tgtacatggt 180
tgtagcgttg ctttaattata ctttacaata ttaattatca attttcttgc aggatggaag 240
aattaactat gatgagtttg tagccatgat gaggaaaggc accccagata taactcacat 300
aaccataga cgtcgcagat aaccctgca ttgctttggt ggggttcagag tgtctacacg 360
ttttatagta taacggcctg ctatttgatt cattaggcac ttgcatgata tttgtgggtc 420
ta 422

<210> 17240
<211> 364
<212> DNA
<213> Glycine max

<400> 17240

agcttgagat gaggaagtgt agaaggggtga aacttcctgc ttttattcgt tgaccacaaa 60
gtggtacctg gagatatgtc gcgggggtca ggagaccttg gggacgtcag gtgggggtgct 120
attgccccaa accaagcttg accaatcccg acccaaccgg ggcatagtca gttagtgaga 180
acctgtgatg tacctaaaca ggcgagctcc tggcagtcaa cagataaaaag gaacaaagac 240
caciaagcaa ggaggcttgt gtggtggctg gccagctgtg aatcttgtgt gatatatggg 300
ttatggcctc tggtaatcga ttaccaaggg tgggtaatcg attacaaggc ttataaatga 360
agac 364

<210> 17241
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17241

tctacagaag gtttgttctt aatttctcta caattgcctt acctctcaat gagctggtga 60

agaagaatgt ggcatttact tggggtgaaa gacaagagca agcctttttt ttctcaaaga 120
aaagctcatc aaggcacttg ttctagctct tctcacttt tctaaaactt ttgagctaga 180
atttgatgcc tctggagtgg gagttggagc tatattgtta caaggcgggc accctattgc 240
ttattttagt gaaaaacttc atgggtgccc cctcagctac cccacctatg ataaagagct 300
ntatgcctta ataagagccc tccaaacttg ggaacattac cttgtttcca aggaatttgt 360
cattcatagt gatcatgaat cacttaagta cattagatga cata 404

<210> 17242
<211> 377
<212> DNA
<213> Glycine max

<400> 17242

tcaagcttgg aaccttattc atcacaatcg tccccagtct cacaggtctc accgcctctt 60
tggactccga cattgcaaca cttggtgatc tcttattctc tgtcactgat aatccattca 120
aaggttgacg tcatgtccct caaaacttat gatcatgcgc taaaacctta tcttgcatc 180
ttttttcctg ttactgcatg attttatcgt cgttactaca tgcgagcgat gatctttttc 240
tcttaattat acttttgaga tcatctggat actataatta tgcgataata atattttcat 300
aactgtattt tttctcaaaa aagaagacac tgtctgccag ataaatgtta caattttcgc 360
tataaaacac tatgttt 377

<210> 17243
<211> 410
<212> DNA
<213> Glycine max

<400> 17243

tgcgttgtaa aaggatctgt ttggtagggt aacatttgag aatggcaatg gtgagcataa 60
ttaaaactag ccattaattt ttacagaatt gataaatgtt taatatgatt ttacatagac 120
cggaacatg tagagattat tcaacactga agggaatggg gattgagggt agaatttttg 180
aatgcaaac atgtttgaca agaatacctg agttaccga ttaaacaat tattcaccat 240
tgtactgaga ctttgtgtaa aggttgacta attctgaagt catatgattg gaagccctag 300
aattggggta ccaagcaaga tcaacaattg ttgatggggt agacattact gcttgcaaat 360

aggttgaatc aaggcttgct agttgccatg agagcctgtt gctgctgaaa 410

<210> 17244
<211> 383
<212> DNA
<213> Glycine max

<400> 17244

agcttctact tatgtggcag ggcgagcttc cttcactttc ttgcctcaac cgcgagcttt 60
gaccaccgct ctttctttcc gtgatgcttc tctttatata cgcctgagtg ggtttatagc 120
ctaaaccata cttcccacga tttcctttgg catttatcaa gctagttatg ccgccgttgt 180
ctttgcctaa acccattccg ggttcgtaac cgttccccc aa cataactcgg gccatcatta 240
ctgctgcata ggacaggcaa gcttgcccag agaaggagtc cacggaggaa atgcttacca 300
cctcaaaaga ctggaaagcg gtttctaata actcctctgc ggcttccaca taaggcatag 360
aggatgggca gctcaccaag atg 383

<210> 17245
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17245

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ctcaaaagtc aagaacactt catgataaca aagatgatga tctcaagaat caaagaatga 120
gttcaagatt gaatcaataa cacttcaagg ttcaaaagga aatttgattt caagaatcaa 180
gaatcaagaa tcaagaatca agttccaaga atcaagatca agattcaaga ctcaagattc 240
aaaaatcaag agaagactca atcacgataa atattaaaaa gtttttttca aaaactgagt 300
agcacatgna atttttctca aaacctttta ccaaagagtt tttactctct ggtaatcgat 360
taccagataa ttgtgatcga ttaccagaag cataatgtgt tttcaaaaag cttcaactga 420
at 422

<210> 17246
<211> 384
<212> DNA

<213> Glycine max

<400> 17246

agcttatcaa catcaaactt ggagaaagag ttcttggggg caagacatga gaagcaatca 60
agtataatgt tacttccttc actaaagcgg tgatccatct ccacacatat tttatcaata 120
gcaacataaa aaatctctgc acggtaatga tgaagattag tgatagtcct cccttctgct 180
cttgaacgac cccgaactgg tatttcgtca tccatatttg gtaccagaat acttttagca 240
acacacaaaa tccttggaca tcggcaaaaa aattattcca gccactctct ctcatgtgct 300
ccaaccgagc tttgacaaca tcaactaatt ctctttgcaa tatatttgaa agctcgtttg 360
tttcctatga cctggatcac gcac 384

<210> 17247

<211> 423

<212> DNA

<213> Glycine max

<400> 17247

taatattctaa gctaacagaa ttatagcata aagcattcat gcttgacata gaaaaggccg 60
aagtattgga ccctgttcct tcgaaaatgt tatcgatttc ttgcaattaa agttatgttt 120
gagaatacct aactgttggg atcttatttc aagaccgcga acaattcttt cctttaattt 180
gttatttcat atagtctttt gctttacatt agacaactaa gagtttaaga tcaaacataa 240
tgtcagtttt tatagttaat ttattttcta gcaaaaagta cttatcttat actaatatgt 300
gcgattatat atgattcggg ctcttactaa aatttcatat tcgactccta taaattaaaa 360
aacgtgatta aaaaagatat cattaaaagt gaacaaaatt aattcatact cgatactcat 420
gat 423

<210> 17248

<211> 386

<212> DNA

<213> Glycine max

<400> 17248

agttttcccc tcgatcctcc gatatcaaaa ccgtctgctg cctcccagca gaatcagcca 60
caaaaaccga attcctcttc tcgtcatcac ctaaaactag tgccataaaa ctaattggac 120

caatggatag acttccatga aacacagtct gggtaatgga aagcgaatac gagtcgacaa 180
taagaatagt gcatttagga ggcttcctag gctgagtttc tctatcaatt actccttcat 240
ttccttcaaa agaacacgct atacagacat atctcggcgt tgaaggcaaa gttcgaatta 300
tgcggtgagt gccaacccaa ggtggcaatt tctcctgca ccggcaatga ccaactggttt 360
tgctccaaac acacaaaaaa ccatcg 386

<210> 17249
<211> 420
<212> DNA
<213> Glycine max

<400> 17249

tactgtgttt tatcttcgta ttttcttctc ttggaattgt ttaaggagaa atttatctaa 60
acaggatcca cgtctagaac ttacgtgtc ttttttttac aagataagct gtattgtctt 120
ggggtcgcat cctagttctc attggttggtt atcctaatac caagttgtat atgtttgtag 180
tggtgtttta ttatacttta caatattaat tatcaatttt cttgcgggat ggaagaatta 240
actatgatga gtttgtagcc atgatgagga aaggcaaccc agatataact cacataaccc 300
atagacgtcg ctaataaccc ctgcattgct ttggtgggtt cagagtgtct acacgtttta 360
tagtataacg gcctgctatt tgattattat gcaactcgcat gaatattgtg ggtctacact 420

<210> 17250
<211> 381
<212> DNA
<213> Glycine max

<400> 17250

agcttgtgaa agccaccttc acaatcgaaa ttgttgaaat tgctacaaat ttctagaata 60
ttcttaaata taatatgtat gaaaatggta gaataccta gaactatagt gtgtatgaat 120
atggtagaac aatctagaac tataatgtgt ataaatatgg tagaacaatc tagaactata 180
agtgtatata taagatagaa gaatctagaa ctatcatgat actaatctat catgaaaact 240
ttagaaagac ctaaagtaat gtagaagcat tcaccacat tgagagggtg gtgacttaag 300
cctataaata ggcaattggt atgttgtaat tggatcatcca agaaatcaat gacatattct 360
tctttctaaa acaattctct a 381

<210> 17251
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 17251

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gcttctggta gttcttaata tctggctctgc tcttgagact gaacctgcgc tccttcctgc   60
aactcgtaca atgtaggaac tcatccctgt gaaagtttcg tttcctcatt gcagtgtctt  120
tccagttagc cacatttgcc tgggtgtgtgt aatatttcgt cagaggtgtc ttccagagtg  180
gaactctatc ttcattctca caatgaacct agatgttgct cttccacctt ccagtcacct  240
ctttcaaagc atgctttctca aacgcttctg gagtcacatt cactgatcca aataataatt  300
gtaaaactaa attagtgtaa taagattatc tattatctat attttacttt ggcttcttat  360
gtttaaaaag ttgaactttg gtctgagtggt ctttattaga ccacattgat cctttcgtca  420
c                                                                 421
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<210> 17252
 <211> 568
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17252

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cctctaccac ncgtcaccac ccttatgcaa gtagcaggga cgcacgtcca ctctcaaca   60
ccncatcccc ggganacccc tttgagtcga tgcttcgcga aactgcaaa ccngagaacg  120
acacagtcaa cagcctcagg aggaacgggc gctttccgtc gccgaaacct catgcaggca  180
gagactgaga agagcacagg gacatatcca atcacgcata ccaagacatg acacaccacg  240
acgccatgac cggcgaacta acgtgcaacc aagagagaca acgcacaact cctccgagt  300
ccaagagagg acaaccggac gcatgcacta ggcgcgaa tagacgacat cacaacgcac  360
cgggagagga ctgcgccggc accgggggaca ccaacaaatc ccgaacctcag gcggggcgcca  420
gcgcgcctag cgtactacac acggaatatt gagcgccaag accacacgcc atccgaataa  480
caacggaggc gaatccgttc ccctcaagca ggggggaaac atcccgagc ccgagcacgc  540
acaccacccg ggagaacccc gcgcagcc                                     568
```


<210> 17253
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 17253

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ttgctttctt aagaaaactt ccttgagaag tttctttgat aaaacttcct tgagaagcta   60
gagtttagct acacacaccc gtctaaaaac taagctcacc tccttgagaa gctttcttga  120
gaagctagag cttaactaca caccctata atagctaagc tcacccccat gacaaaaaaa  180
catgaaaata caaaaaaat cctactacaa agactactca aaatgccctg aaatacaagg  240
ctaagaccct atactactag aatggccaaa atacagggcc taagatagga aaacaaccta  300
ttctactata tacgaagaag agtggacca accttggccc atgggctcaa aaatgtaccc  360
taaggttgat gag                                                         373

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<210> 17254
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17254

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acactatana caactcatgc ttaagccttg aattgagtgc cattaccgtg ttgattttta   60
agggagacca tatctgtaga tgagggtgtt ccaggtgaac ttttctacct ccctaactga  120
aatatcttgt aatggccttg cctcagtcca cttagtgaat tagtcgatgg tgaccaataa  180
gaacttgacc actcctatgg cttttggcaa tgggttcaat atgtccatgc cccatatggc  240
gataggccaa gtggaactca agctatgggt gttgttggga ggggtgcgtg gaacatctgt  300
gaattcttac ctctctgta agtagaaggt ggcagccaat aatatccgat acacaacact  360
ttggttgcta gggaacgacc tccgatatgg aggccacata ttctttcatg ttagtatcgc  420
atgacatagt c                                                         431

```

<210> 17255
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17255

ttgctttgtg taatcgatta cacttatttg gtaatcgatt accagtgact gtttctgata 60
 aatcaaaaga tgtaactctt caaaagggtt ttgacttttt caaattgggt ttaaattttt 120
 ctgaaagtta taactctact aaatgggtct ctgactaga cacgaagagt ctataaaagc 180
 aagggtttgt tttgcaaatt aaattaattt cattctttca tactttactt ttccaatcaa 240
 tcctttacaa gccttgaatc tctttgaact tcttcttctt ctttgtacca aaagctatct 300
 gaagttttct ggttttccaa accttgaaaa ctgcgctat tcacttttct attctcttct 360
 ccctttgcca aaaagaattc g 381

<210> 17256
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 17256

tgagatgagg aagtgttgaa gggtgaaact ttctgctttt attggtgacc acagagtgg 60
 acctggagat atgtcgcggt ggtcaagaga ccttgtggac gtcaagtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgacca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240
 agcaaggggg cttgtggtgg ctggccagct gtgaattttg tgtgatatgt ggattatggc 300
 ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttaaaat tgaagacagg 360
 aggctaagat ggtctctggt aatcgattac c 391

<210> 17257
 <211> 544
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17257

ccgcgacgca gcgtcccgcg cantcagtgt gtgtgaaaga atacatatca aaagtaccan 60
 tgcataatnt gnannccnnn aagggagttt atttgagcgt cgaaaacacc agaggatacg 120
 actcgcgcgg gggcacctag aagacgacct gcaggcaagc ttgcttaaac acccaacccc 180
 gagcgtatgg atagatcacg agactatatc ataaatacga gtaaaaagaa attgccggaa 240
 gaaggcacia caggctacac caacagtgtg gatgaatatg gaagaacacg gtacagcaac 300

aaagagcata aataagggaa aacagcctag gacaagacgc gtagctataa cataaaaagaa 360
ccaacgacta gcatgatacc aagccatcat gagaaattca gaaagaccga aagtgcgta 420
taaacagtca ccaacattga gaggttggag acgaacgcct atacataggc acaaggtgag 480
tcgcacatgc tcatacaaaa gaataaggac atagacttgg ctcataaaca aaacactaca 540
accg 544

<210> 17258
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17258

ttcaaacgac agtaactgct tattcggatg tccgattgag tcccgccata tatcgagacg 60
ctccaaatct attgttgaag ctcttagcca ctcaaacga caataacttt ttactccaat 120
gtctgattga gtctgtaat acaacgaaag gctcgaaaat gaatgctcaa gctctgatcc 180
aatacatacg acaataactt tttactcgga tgtttgattg agtcccgtca tatcttgcca 240
ctctcgaact tgtatattga atttctgagc ccacctaac gacagtaact ctttactcgg 300
atgtncgaat gagtctcgta tatatcgaca cgctcaaact gaatgtgaag ctctgattaa 360
ttcaacga 368

<210> 17259
<211> 379
<212> DNA
<213> Glycine max

<400> 17259

ttgcttatga gcctaaactt gaagcttcaa tgcagggaaa catgcttatg gctacgaata 60
caaaatttgg tattaggatt aaaaaacat gaaaataggg acttggttgt aagaatttgg 120
gctgccccat gattggcact ttgcacctaa gtaacgtggg agatgctttt caatggtgtg 180
tagatatatg tgtaaatata aagggcatga aattctttgc aaaggagac ggagtattga 240
agacccttcc taaatgaatg tatgatagca cgggattccc ttttgaatgc aagtatgtgc 300
ataatgttaa atatcttgcc aatatgcac agtgtagtg aaataatgaa agattgcatg 360

379

<210>	17260
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<211> 562

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400>	17260
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ccccaaactgc	tcacnctacc	actctcaata	tatggcgctc	gatgtgtatt	gttaatgttt	60
agtagcgctc	ttactctcta	ccctacgana	ccgcgganna	ttgaatcgat	accatgtcga	120
gaccgtgaca	ctatccaata	ctccacgctc	aatactgctt	tgcggaacttg	ctcttacatt	180
tccatgtgga	cgtcttttgt	gtgaatgagt	gaaatgttat	gacatccgcg	ttgaacgatt	240
aagatgagga	agccgaagga	tttggtctatt	cactatggag	gtgcacatgg	ggcaactgaa	300
agcttttatag	tgectattta	tccccaccc	taaacttggt	tcttcctatt	tgtgcaatat	360
cttcttcatg	gcggccggcc	acccatcctc	agaggtcatt	actaaatcat	cctcgggggcc	420
tggtctacgga	cttcttttct	caatgagcat	ctttttaacc	cacgggctaa	atctgctaaa	480
tggaattcttg	caccacatgt	cagaaggtaa	gcgccacata	gtcgactaag	ctaacttgac	540
ctatagcaga	gctactcctg	cc				562

<210>	17261
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<211> 379

<212> DNA

<213> Glycine max

<400>	17261
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tgcttatcat	tagagatgtc	agaagatagg	gtttaaatgt	ctataggctt	ttgaagagct	60
tgtcgttaaa	gattcatcac	tatcctttat	gggtgcttac	ttagtgtaca	atcaaataaa	120
aacacattat	attacaccaa	gagaaaaaaaa	aaatccaatg	acaaggaatg	gctaattatt	180
gttaccaagt	gatgtctttc	tgtctaaaca	atgttgaagc	aacatgccac	acatgatgag	240
ctaatacgctt	aagtagtaga	ttggaaaagat	gttcgaagtt	tacatcaatg	aaatgaacat	300
caaaagcact	caagaagatc	atattttatga	cctcgtcaag	ttcttttagc	aatcaatggt	360
gcacaatatt	atcctaaat					379

<210> 17262
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 17262

gacctatgaa actcagctgc ttttgtcaaa gggatgagcc ggcgttttaa gttttggtat 60
 ttcttgttgg atcatttgaa gtcattcact tacatttagt atttggatat atatatatat 120
 atacattgat ctatgctgtg gaaatcattg agttttccga taaatgtaaa agctacttga 180
 ttcaagacat tctattgctt tctgcaatta ttagatatt ggagtctata ctacaaatgg 240
 tgaaaatagt ggttcacag cactactaaat attctaaacg atgtctcggg gtaggcgttt 300
 attttattta 310

<210> 17263
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 17263

agcttgcccta attcacctga aattgagaga aaatgattgt taaatacaaa aaatggaagt 60
 actaagtatt tattatctat gcttaacaaa agatacttat aactactaaa aataaccata 120
 aattggaaga gtttgataga acttacacaa gctttataga caaaagtttag tcgtatttac 180
 cggctaacaa ctcccccaaa tttacagttt tgcttgctct caagcaaaaa gagaacagct 240
 cacttgctct caagtacaaa taacatgcag tgactatgta caatggtgta tgaaacaaat 300
 gttactgatt gcatgataat agaatgaagc attctgtact catcacttgt ctttcacaaa 360
 atatgcaact attcaaagag 380

<210> 17264
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 17264

tgcttggtga gcttctatgg aggctggatc tttaatcttc aatgaggtcc ttcaatggtg 60
 attttccacc atggagatgc agtggagaaa gaaggaaaag gggtagagagg agacaccatc 120
 cactatggaa taagacatgg aaaaaggagc ttcacacca ataatgtgcc ttggataaga 180

agcttggaga ggatgcttca atggaggaaa agaaagagag agagaaagag agaggggggg 240
 ggggagcatg aaattgaagg aagaaaaagg agagagaagc ttccttgata aggggcacga 300
 aattgagttg tgtctcacia gactctcatt catcaaagtt acaacaagtg ttacacatgc 360
 ttctatttat agactatgta gctttcttga gaagctttct tgagaa 406

<210> 17265
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17265

agcttggttg gtcgcgattg acgaagggtg taaaagacga cgtagtctc cgcatgctat 60
 caggctttct gtcttacaga tagcaaaaga atgtttataa ggataaccac tcgggtattt 120
 ccaaccgcca gcgtgactca aatgtcagta tgacagatct tgtgagcgcg gaaaatgacg 180
 taaatctccg cgtgtcaatg ggcttatttg gccgcaattg atgaagggtg cagaagacga 240
 tgtagtctc tgcattgctat caggctttct gtcttacaga tagcaaaaga atgtttatac 300
 ggataaccac tcgggtattt ccaaccgcca gcgtgactca aatgtcagta tgacagatga 360
 ggtaaaactc cgtgtgtc 378

<210> 17266
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17266

ntgaggattt ggtctttgcc agtgaaagga tcgatgtggg tctgaaaaaa ggcaaattta 60
 gtcattctgc ttggacgaat gagaaaactg gggcaaatga agaggggtgag aaagagggag 120
 aaacccatgc tgtgactgcc attcctatac ggccaagttt cccaccaacc caacaatgtc 180
 attactcagc caataacaaa cctcctcctt acccaccgcc cagttatcca caaaggtcat 240
 ccctaaatca accacaaagc ctgtctaccg cacttccaat gacgaagacc accttttagca 300
 caaaccaaaa aacaccaacc aaaaggaatt ttgtagcaaa aagcctgtan gggtcacccc 360
 aaattatgtt gtcattatgct aaacttgatc ccattatccac tcaataattc 410

<210> 17267
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 17267

agctttgaac aatatacttg tccttcattg aactgtcttt gggcttggcg gccacgctca 60
 acaaagtatt ttcgacacct actgtacgtt gatttgacca atgctgttat gggaatgttg 120
 cgacaatcct tcaaaacctt attgatacat tttgagaggt tggttgccat gtggccatat 180
 cgacgtcctt ctctatcata agccatcgtc catttttctt ttgaaatgag atcaatccat 240
 gttgctatgg ctagactcag ttcacgaaat ttttctagat tttgatcaaa aatgtgcttg 300
 caaggagtgt aggctgcata aaattagtta tgaataacaa ttttaagtat atatcaaagt 360
 taaataaatg tgaccatgaa ata 383

<210> 17268
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 17268

tctaaggagg tgagcttagt tatgagagga tgtgtgtaga tatgctctag cttctcaaga 60
 aagttttctc aaagaagctt ctgaaggaag ttttctcaag aaagcttctc aaggaagcta 120
 cctagtctat aaatagaagc atgtgtaaca cttgttgtaa ctttgatgaa tgagagtctt 180
 gtgagacaca actcaaagtt caacttctct ccctttttct tccttcaatt tcgtgctccc 240
 ccctctctcc ttctctcttt ctttcttttc ctccattgaa gcatectctc caagcttctt 300
 atccaaggct catcttggtg gtgaagctcc ttcttccatt gcttattccc tagtggatgg 360
 cgcctcctct cacctcttgt cttttgtctt cggctgcac ttcattggtgg aaaatcacca 420

<210> 17269
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 17269

agcttttgca tgtttagata tttctagaga gagaaaggct caagttctag agagttttga 60

gagcttttgc tgtaaaaaga cttgcagaga actgagcgag aagaggaagc catcttgaga 120
gcatgaaatg agtctgggag tgattgtgag gttctagagg tggaagagac atctccacta 180
cttgtatttc ttcaatcctt cattttttctc ttctctttgt tgtaaaggaa gcttcctaga 240
tatggagagc taaatcctct gctggttctt ccttgtaggt acttgatgta aatacttgta 300
tatctattta atgatgtttt atgtgttctc tgtgctatca gtacgtcatt tcagtgtgct 360
tttgccttga tcacgtagat gcatgc 386

<210> 17270
<211> 403
<212> DNA
<213> Glycine max

<400> 17270

tgaagacaaa ctggatgctg tggtaacctt ggtaaccag ctggccttga atcagaaatc 60
tgtacctgtc gcaaggggtt gtggtttgtg ctctctgtct gaccaccata cagacctttg 120
cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatattta 180
caatagacct cctcaacctc agcagcaaaa tcaaccacag tagagcaatt atgacctttc 240
cagcaacaga tacaacctg gatggaggaa tcaccctaac ctcataggt ccagccctca 300
gcaacaacaa cagcagcctg ctcttctctt ccaaaatgct gctggcccaa gcagaccata 360
cattctcca ccaatccaac aacagcagca acctcagaaa cag 403

<210> 17271
<211> 384
<212> DNA
<213> Glycine max

<400> 17271

agctttatct agtaaaatgc aatcttccac ttgcattha aaccaccta accttagtga 60
taaaaattca atttccaata tcaatgcacc ttatctttta tcttggaaact ctacaaaacc 120
ttacactttt atctttctat aatttaaaat tctactttt cttttttact ttttgtataa 180
acttgtggga atgaaatgtt agtagtgaat gaatatttga gaattggaga aactagaagt 240
tttggaggaa gaggtctact gtataattga tcaattcttg tttttttttt gcttgatata 300
gaaaaaggaa attgaaaaat aacaaaaaat aattgaattc taacatatat gcactgattg 360

aactaatcat ctaaaattgt gctc

384

<210> 17272

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17272

ntgaacaata tacttggcct tcatttaact gtctttgggc ttggtggcca cgctcaacaa 60

agtactttcg acacctactg tacgttgatt tcaccaatgc tgttatggga atgttgcgac 120

aatcctttaa aaccttattg atacattcta agaggttcgt tgtcatgtgg ccatatcgat 180

gtccttctct atcgtaagcc atcgccatt tttcctttga gatgcgatca atccatgttg 240

ctatgtctgg actcagttca cgaaattttt ctaaaatttg ataaaaaatg tgcttgcatg 300

gagtgtatgc tgcataaaca tagttatgaa taacaatttt aagtataaat gaaagtaaaa 360

taaacgtgac catcatatat gaaatcttac ccaatttctt caacatttct ttttg 415

<210> 17273

<211> 382

<212> DNA

<213> Glycine max

<400> 17273

agcttcaact ttcaatatcg agcgtttcga tatattacgg gactgaatca gacatccgag 60

taaaaagtta ttgtcgtttt aatttgctta gagcttcggt attgcatttc gagcgtctcg 120

atatattacg ggattcaatc agacatcaga gtaaatagtt attatcgttt taacttgctt 180

agagcttcga taatcaattt cgagcgtctc gatatattac gggactcagt cagacaaccg 240

agtaaaaagt tattgtcgct tgaatttgct cagagcttcg gtattcaatt tcgagcgtct 300

cgacatatta cgggactcaa ttagacatcc gagtaaaaag ttattgtcgt ttgagtgttc 360

tcagagcttc ggtattcaat tt 382

<210> 17274

<211> 414

<212> DNA

<213> Glycine max

<400> 17274

tcttgtttat acctcgatcg gccatgtttc ctgaccgacg tttactaaaa tttttttcga 60
tcagtatcgg tgagtaaaaa ttattttttac gaggttggcg aacgttttcc cttccaagca 120
attgaaaaga tgccagtgtt cgccgaaaca caacttcgtt gtgctcgaac gaaaaaacct 180
agccgaccta catataaaat ttttacggca acaccgaaca gatgagctac ctctaccgta 240
aaaaaatggt atctgccagc atttgtaaaa aagttgctca cagtcgactg aaaaatatca 300
gtcgcggcct tacaacatca gacgtcggcc attgtacttt atattcaatc cctgaatatt 360
atttggatga tgtctattag gaaatgttac atcggcgctca tccggtgacg cttc 414

<210> 17275
<211> 383
<212> DNA
<213> Glycine max

<400> 17275

tctttgcgca acaaataattt tattgttgcg tgatcagtgt aaatcactat ctttgatccc 60
accaaataag atcgaaattt ctcaagtgc aacacaattg ccagcaattc tttctcagtg 120
gtggcatagt taatctgggc atcattccaa actttgctag cataatagat ggtatgaaac 180
attctgccct tccgctgccc tgccctagca tagcacctac tgcataatca cttgcatcac 240
acatcaattc aaactcttgt cccagtcctg gtgctataat cacataagca gaaaccaatt 300
tggctttgag agtggttaaag gcttctaagc attcttcatt gaatacaaac acaacctcct 360
tgttcaacag attgcttaag ggg 383

<210> 17276
<211> 407
<212> DNA
<213> Glycine max

<400> 17276

tcctttacac aaagagaaga gaaaaatgaa ggattgtaga aatacaagtg gtgaggatgt 60
ctcctccacc tctagaacct cacaatcact cacaaactca tctcaagctt tgttctctag 120
aggtcatcgc ataacaaaat ctctcaaaac tctctggact cggacccttc tctctctaga 180
atctctcaca tgcaaaagct ccttgagaaa atggccaaaa tcctctccaa aatctgattt 240
caggcttaaa taggtgggtt ttttgtgcta gcgcgcttag cagcactatg gaccgcttaa 300

cccgccattag tggatttcgg cttagcgcgt gcttttctcg ctcactggat ggactgaagc 360
 ggtgtgctta actgcatgac cctttgctca gcgaacatgc acaactc 407

<210> 17277
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17277

tagctttgtg gccatgtaaa cactaaggct tagggtttgt tttccccgt tcaatcaacc 60
 cagtgtttcc aaacaatgca ctttcatcaa gttatgcaca catccgagtc catttaggcc 120
 ttcgggaaaa atctttcatt gcattcgtgg tcgaagccgg taagtgcacc ggatcgtgca 180
 agtagtataa aacggtaaga accgagtgtc gaactcttgg gaaacttgtg ttacttggtta 240
 aagctatatt cagtgaatag gtgtctagta tgaaaagata tgtgtggact atgaacaagt 300
 atgtaaaacta actattaaaa aggaaaatca cgtgagtaat gatgtgtaaa gacaagtaga 360
 caacgtgttg gtcttcctat t 381

<210> 17278
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 17278

ttagtgattg tgtgcgacca cagattttat attgagtgtc ctcatttata tgttctataa 60
 ccaactctgc atgaatttgt aattgtcata acatatgatt tatgaatatg atctaggcct 120
 tctttctttc ttacatctt aagccgctgg ccaagcaact atcccaatgt agttatttat 180
 catttgcaag ccctttgagc caaacacttg atattttgat ggaacactaa cctaagataa 240
 aaatttcttg ccttacctta ggtaggaga gcagcgggtgt tttgttgggg attctatcat 300
 ttggtggcta atgtaatgta aatactctgt tcttaatacg ggtattaagg gaaaacagaa 360
 aagaaaagaa caatagaata gattagaaaa gatgaatata caggagaagg aaaa 414

<210> 17279
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 17279

tgctttgagc aaattcaaac gacaataact tttgactcgg atgtccgatt gtgtcccgta 60
gtatatcgag acgctcgtaa ttgaaaacgg aagctctaag caaattcaaa cgacaataac 120
ttttgactcg ggtgtccgat tgtgtcctgt agtatatcga gacgctcgaa attgaaaact 180
gaagctctga gaaaaatcaa acgacgataa ctttttactc ggatgtccga ttgaatcccg 240
taatatatcg agacgctcgt aattgaaaat agaagctctg agcaaattca aacgacaata 300
acttttgact cggatgtccg attgtgtcct gtaatatatc gagacactcg taattggaac 360
agaagctct 369

<210> 17280

<211> 414

<212> DNA

<213> Glycine max

<400> 17280

tctgttttca atttcgagcg tctcgatatt ttacgggtgct ctatccgaca tccgagttaa 60
aagttattgt cgtttgattt ttctaatagc ttttcttttc aattacgagc gtctcgatat 120
actacgggac acaatcggac acccgagtta aaagttattg tcgtttgaat ttgctcaaag 180
cttttgttgt caattacgag cgtctcgata tattacggga ctcaatcgga catccgagta 240
aaaatttatt gtcgttggat ttttctcaga gcttcagttt tcaattacga gcgtctcgat 300
atactacggg acacaatcgg acacccgaga taaaagttat tgttcgttga atttgctcag 360
agattctgtt ttcaattacg agcgtcttta gatattacgg gactcaatcg gaca 414

<210> 17281

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17281

ttgcttcata tagaccaaga ccagaagtat ttgtaccttg atttaccatg atctcttaat 60
acaatatctt tattgttgat ttttttttcc tttggagaat gtcaaacgta aatcacattt 120
ttttatcagc ataaattaat ttgttagttt tattaaaaat ataactttgg aggatttgaa 180

cccacgacct ctccccctc tctttccct tctccctcca ccacctctca tctgtcaacc 240
accttatatc tctcaaataa aaatcacatt tggttaattga aaggaggaaa atatcaaatg 300
taaattgctt cttttttcca ctagaaatgc ttacaacatg tcttttttct atactctctn 360
ttcaacatta tctctactta tta 383

<210> 17282
<211> 419
<212> DNA
<213> Glycine max

<400> 17282

tatcaataca tttgaagagg ccatccacca cttcattatc actgtcaatg tttggattgg 60
tgtaaaagaa ctttggattc agataataac ccgctgcatg caaaggggtg tgaagttggc 120
aatcccatct tttatcaatg attgcaagga tatccttata cttcccttca ttgttattga 180
aagctctttg aattgcttct ttggccctat ccattgcttc ataaatgaaa cccattgtag 240
gttttttttc attatccacc aacctcaaca cacttacaag aggccccata gcctttaaaag 300
cataaacaac atcattccaa aatgatggca taagaacaac atctgttgct tgcttccctt 360
tgggctcttt agctgcctta gacttcaacc attcatctga attaaacatc cttctaaga 419

<210> 17283
<211> 375
<212> DNA
<213> Glycine max

<400> 17283

agcttttgag tccataagag aaactattaa aacttgatta catgtctggt aaaaattgtg 60
caaagcaata ataatttgac aacttgtaat attttcccc caaatgtgta gtataacttg 120
taattccaag atatgtagtg ttggaatgct ctccttctta aaaggtaaaa aaaaatagta 180
tttattactt tttttatgaa acgaaaagac attgtcttaa attgtgtgtg acttgactta 240
attttatact aactgtgggt ggataattat tgatgtgaca attaatacta caagtaacga 300
caaaggagct tcaccacag ggtcaacaac agtagaagca ccacaagatt cacctgtaga 360
cgacgttgat gaatc 375

<210> 17284

<211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17284

```
tgtgggtgct ccccttattc ctcttcaggt tccattatac catactttga ctgcgccct 60
caaagattgt tccattgtaa gccttaccaa tcatctatat attaatctct ctttgaattt 120
aagttgaata attcttcttt gaattaaact agaataaag aggggagagt ctcataaaaa 180
attacaaaaa tcctctttta tattatttcc atccttcata acaaacacaa cttataaca 240
tataaatcta taacggtgat gaataactca tataaactac atcacgcaat tatagtttgt 300
gtcttggtta attctctata catatgaacc ttgagtatgt aagtatgttt ttaatgtaaa 360
aacatttang gtaattttat aagagtgatg ttacattgtg ttatgagaaa 410
```

<210> 17285
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17285

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tgcttatagt tattggaggg agaataaaac aatccaaaat caattgtacc cttcaagtaa 60
caaagaattc tttttgcggc ttttagatga ggagaggtag gagcctccgt aaagcgacac 120
acaactccca ccgcatatag aatatcaggc cttgtattgg ttagatatct taaactcccc 180
acaagactct tgaagaccgt ggagtctacc ttctctcctt catcaaactt tgataacttc 240
atgccacctt ccatatgtgt tttcacggga ttacaatcaa gcatattaaa tttcttcaac 300
acttcttttg tgtagcttcc ttgtgagaca aagataccat tctacgtttg cttcacttcc 360
attcccaagt aatatgacat g 381
```

<210> 17286
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17286

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tcacaaactcc aatactctat atgagctatg ccactaattt ctatctttat cctgtagttt 60
```

ctaagtcttg tccacttcaa tttaaaatca aaattactca aactgagatt gattttaaact 120
atataagcta agaaaacatg agtgaatatc atgctaattt caattataat ttgtccttct 180
ataaataaag attatagtta aattctagga aattctatgg agaccaacct tggaaacttct 240
cctcaagtga caaaatatca ccagattcct tgacagttac actaggactt agcgagtgca 300
ttgatccacg ttttctatg acgccaacag ttatttctac ccatctgctg tgccctttcc 360
acgtgaggcc atggccagtt gcatcctcaa attntgatgt caca 404

<210> 17287
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17287

agctttcaac aagagtcttc acaaataacc atcatgaagc agaaaactaa caaaactacc 60
catcatatct cccaaaaccc catacccacg aaatttaaga gagaaagaag tccacccaaa 120
cctgaatttt cgaagtccca ctctagcca cgcacttcac gacttcgaaa atgctctcct 180
ttcgcgattt ggagcagaaa tgagcaccaa aggttgagc tttgttggg tttcaatgga 240
gaatggagga gaaggaaaaa gcaacgtgag gaagagggag agcttctgaa ttttctgttt 300
tggctgagtg aggagagaga aaagcttttt ggtntaaat aaaaggttnt cctctttttc 360
tattattnta ttcattgctct gccacatgt 389

<210> 17288
<211> 420
<212> DNA
<213> Glycine max

<400> 17288

tctacttatg ttgcagggcg ggcttccttc actttcttgt ctccaacgag agctttgacc 60
actgctcttc ctccccgga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120
accatacttc ccacgatttc ctttggcatt tatcaggctc gttatgccgc cgttgtcttt 180
gcctaaaccc attccgggtt cataaccgtt ccccaacata actcggggcca tcattactgc 240
tgcatcggac aaacaaggct gccagagaag gagtccacgg aggaaatgct gaccacctca 300
aaagactgga aagcggtttc taacgattct tctgcggctt ccacataagg catagaggat 360

gggcagctca ccaagatgtc ttcctcgctt gacacgatga ccaagtgcc ctccactacg 420

<210> 17289
<211> 388
<212> DNA
<213> Glycine max

<400> 17289

agcttggtta ccccatgttg aatttgctta caatagagct gttcatagca ccaacaattg 60
ttctcctttt gaagttgttt atggttttta cccactaact cctcttatct tttgcctatg 120
cctaattgtt atgtttttta gcataaagaa ggtcaagcaa aaggcggact atgtgaagaa 180
gcttcatgag agagtcaaag atcaaattga gagaaaaaat aaaagctatg ctaaacaagc 240
caacaaaggg agaaagaagg ttgtcttcca acccagagat tgggtttggg tgcacatgag 300
aaaagaaagg ttctgaaaca aaggaaatca aagcttcaac caaggggaga tggaccattt 360
caagtgcttg aaagaatcaa tgacaatg 388

<210> 17290
<211> 424
<212> DNA
<213> Glycine max

<400> 17290

tctagtcgtc catagacctc ctctgtggta cggctctatca aactttgcat ctgtgcattc 60
atcgcatcca ctaacagacg ttgagcgccg tccaactgat ggtactcgtc accaccacca 120
cctgctccag ccataattca acaggaaaaa aaaaatgtgc aataaaaatt attaggtttt 180
caggacctca caacactcta ctacgtctc ttagatggta gtacactcgt gtttaatgct 240
ctcaataggc ttttgtgtaa tgtattccct cttgcctttt accactcgtg tttcctctta 300
agttcctgga tggaccaaata tagacacaca aggtaataata aaataaaagg aaagacaata 360
taatgatcac aaacagattt gatttgggat aacaacttgg acttgatttg gataataata 420
tatt 424

<210> 17291
<211> 386
<212> DNA
<213> Glycine max

<400> 17291

agcttggttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgaagaa 60
catcgaagaa cgggttgaaac ctttgcgaga ttcttcacgg aaaacggttac ggaaacgttt 120
cggaagcgcc tcggcttaga ttttcttcac ggaaacaatt ttcccaagca aattcgaaag 180
agagagaagt gccaaagggg ctgaaccctt ttcttcttca cttcctcccc tatttatagc 240
aaaatagggg aggtggttgc cgcccagctc gcccaggcga gctcagctcg cccaggcgag 300
ccaggttgct tctccagaa gcaacagcct tctggaggaa tattctggag ggcccaagtg 360
ggcctgggtg ctatttgcac ccccat 386

<210> 17292

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17292

ttctagctnt tcattggtgt atttggatct ccttttggtg ctctaaattg tgggagtgtg 60
ctcaaatata tggggcaatt ttggtttgtt ttcttgcttg attagggtga attaggggtg 120
tgtatgggat ggcccttaggc ctataatgca tttttgaaca atgggacatg ccacattgtc 180
cccgttctct tgctattgac gcctaaacgc gcgcccacca agtggttcggt gaaatgcctc 240
aatggcatta gcgcgtgact tttgtaagga aacaacccat ggagcattnt ggtttgtaca 300
cattttcttt ttttgaata tgtattcatt cctgaaaaag gctatagtaa ttgccccgca 360
tatatcctat gcctangaac taaaatgtta tgctaataga acacaagagg atgtgcatat 420
tggg 424

<210> 17293

<211> 368

<212> DNA

<213> Glycine max

<400> 17293

ctgctgcatg ctgcttgtct tgattagaca tgattgatac acgacttatg actagtaaga 60
tatgcttaga gccaaataga gtgaagacga gtgagaattc tactatctgc actttatgca 120

gaatattgca tggaaagatg tgcaccataa ttttggctac gtgcatagag tgttgtgcat 180
atgcaggtgg gctaaagagt aatgcaaagtg gagtcctgga ctatttataa taaatgccac 240
cggaatcagg gtgcactcat gtgatctata cttccattag aagttatgag tcgatccaac 300
ggctctacgaa ttgcaacgag gagactgtta ctgggggttgt ttagagagaa aagcagcgat 360
atcgagtg 368

<210> 17294
<211> 424
<212> DNA
<213> Glycine max

<400> 17294

tgctgtccg atgcaacaat aatgatggtc cgagttatgt tggatgaacgg ttacgaaccc 60
ggaatgggtt taggcaaaga caacggcggc ataactagcc tgataaatgc caaaggaaat 120
cgtgggaagt atgggttagg ctataagccc actcaggcag atataaagag aagcattgcg 180
ggaaggaaga gcggtagtca aagcttgctg ttgagacaag aaggtgaagg aagcccaccc 240
tgccacataa gtaggagctt tatatgcgcg ggtctggggg acgaagggtca agtggctcgcg 300
atatacgaag ataatttcc gagtacattg gatttggtac gaccatgccc tctgaattc 360
cagctgtgaa attggcgagt ggaagaacgc cccggcattt acgcgacgag cataatgtaa 420
acct 424

<210> 17295
<211> 383
<212> DNA
<213> Glycine max

<400> 17295

agcatctcgt gccaatcctt gtatgacacg gtcattcttt ggataatctt ttttatattc 60
ttattggccg cttccacggc tccattcatc tttggccggt agggcgtgga attgtgatgc 120
tgggttttaa actcctcgca catttccgcc atcatcttat tattccggtt ggtgccgttg 180
tccgtgataa tcttccttgg caaaccatat cgacagatga tctctttctt aatgaacctg 240
accaccacat tctcgtgac attggtatat gaagccgcct cgaccactt ggtgaaataa 300
tctatcacta cgaggatgaa gcgatgacca ttcgaggcct tgggctcgat ggccccgatg 360

acatctattc cccacatgga gaa

383

<210> 17296

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17296

ntgcacgtat cggatcaagt tatggaccac gttgtatcca aggtgctcat cgataatggt 60

tccagtttaa acgtgatgcc caagagcact ttggagaaat taccattcaa tgcttccac 120

ctaaagccaa gttccatggt ggttcgtgcc ttcgaaggca cccggcgaga ggttaaggga 180

gagatcgacc tccctgtaca gatagaccct cacacctgtc aagttacctt ccaaataatg 240

gatattaacc ccccttacag ctgcctgttg gggcgcccgt ggatccactc ggtgggagtt 300

gttccctcta cactccacca aaagttgaaa ttcgtagtgg aagggcactt ggtcatcgta 360

tcaggcgagg aagacatctt ggtaagctgc ccacacctta tgccttatgt gg 412

<210> 17297

<211> 379

<212> DNA

<213> Glycine max

<400> 17297

tatcttgagg atggtggcac aatacattcc catgaagacc acgagagttt tagactttta 60

gtttacaccc caaaatgtaa acattgctct aatgaagggg gcaacatcct ctctttatgt 120

gttgaaggcc tctagtgcag tgatattgtt cacgctatgt gtctgccatg tcagacgtta 180

tttttccctc tccgcgtctc taacatgtca gacattgggg tgcctttctg ttgtgtacgg 240

tggcgagct agtccaacta ctatgcaacc attcacccaa gtttaacaaat ggaaaatcct 300

tcatttgaca acttgcgatt gaagtgaata gcgagactct acagttatac tattttataa 360

acttataaca taggcatat 379

<210> 17298

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17298

ntgaggggtt ttcggtgaat gtgtgtcttg caagtctgcg tntttatttt ctttttctct 60
tcatgttgat cgtttctgaa gaaaccttct gtatatgggc attgattact attacttcag 120
cttgaaaatt ggctcagatg gatggtttat tcaactttta ttccttattt tttttctttg 180
aggtattttc aactttatta cctcatttcc ttttccaccc tattgttgat tgatcaaaat 240
tcagttccat cctttctcaa ggattaacat ctgaagttag cctttttttt ttttaatatg 300
aatcttatgt taagcgaaaa tatgtttatg taatgcaacc aatgaagtgg gaagcttgag 360
aacattgtga gctatatata tg 382

<210> 17299

<211> 417

<212> DNA

<213> Glycine max

<400> 17299

taatatggaa accccattta ctatgttgat ccggtgagtt ggggtgtactt tgagacttgg 60
gtcaccctga ctagccacta taggacacaa tttatgtagt ttggcttaag tagaaggcat 120
cagacgttaa tgaagcttct tatggctaag catatactcc tagactactt cagaggttaa 180
aaaatggtac cccttggtga tggagaagaa aatgaggaac atgacatgca tatgcatcgt 240
gttgacgtat aatgtattga atgggtattgt gttgaaatga tataaaactt gtgtgtttct 300
attcatgggt gttgttgcat tgcaagcatg tgaataatat ttgtcatgtg taatgtaaag 360
tgacaatgtg tcaagggtcat ggatatgtgt ccacacaata tatgtatatt gtttcta 417

<210> 17300

<211> 383

<212> DNA

<213> Glycine max

<400> 17300

tttcttctca agtaagctac catcaactaac tatgcttgat ttgtgtcttt ttgaacctgt 60
atttggagac ccataaaacc aatatggagc atcagagcta cttgttggag aggatgaagc 120
atccaatttt cttgataagt aaagatcatt catatcgtca tcatcatcaa caaatgtttt 180
atacaagtat tgacaaaccc acttgtcatc aatatactat accttgtaaa ctcaaaaata 240

gtcagcaata acacctcttt gtcatttgt caacctgtat gagtgaaggt agcctatttg 300
aatttatgat tgtacaacca caagttgata aaggacaact tttgattggt tactgttttag 360
tgcctcacct tcttgccctt cca 383

<210> 17301
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17301

tagccaaaca ggccttaagt gtctaagaag aagtttattc aaacaaaagt ctaacaccag 60
aatcattata attattatta accatagtga ttacacttat ttagatgcaa cagattctgt 120
ttggacacag cgattacact ttctaaatat cattatcttc gtattaagta cactctaaca 180
ctaaatgagg gggagtaacc taaatcttac cctcttgatt tactgaaatt tgcaatacac 240
tatgttctgc ttgggaaagt tcttttattt atttatatta tttttatata atttatagca 300
gattgatcta accctaaacc aaaggtacca agattcgtgt tcgatgtcac agaanaagac 360
aacgaatgaa tgaatggcaa agatgagagt gaagctttaa gagacat 407

<210> 17302
<211> 381
<212> DNA
<213> Glycine max

<400> 17302

tagcttaatg attatgtaat tatcttcata ctgcttctct ggaagaaatt atgcttagag 60
acaaagatat tagaattggt tcaactatctt acttttatag taaatgtaat cttattctat 120
tgtttgagta atacactttt aagtgaacaa aaatttgtgt gtaaaactga tggatttggg 180
ctgttttcta aggagaaggt atgcattcca taataattat aagtgggtaca agaataatgt 240
tgctttcatt ttatctatgc aagtattttt tgtttattgt ttatcttcag ctctttacta 300
atactagtat atgctgttta atttcaaggt atatagttag aaagagcata aagagtgcag 360
aagacatagt tcgtttccct t 381

<210> 17303
<211> 416

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17303

tccaacaagt ggtatcagag cacaagagct tcaagtatgt gtccttaaa gtcacattag 60
ttttcagctt tactttctcc tccattgttg tttcttcgtt tctctccatg tatctcctca 120
cgtgtcttgt gctgaatgtt gttaacataa ttttttagaa gttccaccga ttaagcttgc 180
tatagaagct aaatttgatt ttctatgggt caaattcctt gttcttggtc ttgaaccatg 240
aattgtgttc agtttaagtt cttttgagtt ttatattgac aattattttg gctgaaacct 300
aaaccatata attcttacta aaacattaaa gtagaagaaa acctcaaaaa tctagaatga 360
catattcacc tattgtagtt ntgtcataaa agtcatgtct agtcatgaaa cttgtc 416

<210> 17304
<211> 382
<212> DNA
<213> Glycine max

<400> 17304

agcttgagat gaggaagtgt tgaaggggtga aacttcctgc ttttattggt gaccacagag 60
tggtacctgg agatatgtcg cgggggtcaa gagaccttgg ggacgtcagg tgggggtgcta 120
ttgcccaaaa ccaagcttga ccaatcccg cccaaccogg gcatagttgg tcagtggaga 180
cctgtgatgt acctaagcag gcgagctcct ggacgtcaac agataaaagg aacaaagacc 240
acaaagcaag gaggcttgtg gtggctggcc agctgtgaaa cttgattgat atgtgagata 300
tggtctctgg taatcgatta ccaaggggtg gtagtcgatt acaaggctta taaatgaaga 360
caggagacta agatgggtct tg 382

<210> 17305
<211> 421
<212> DNA
<213> Glycine max

<400> 17305

tggtacggat caacttgatt cgtaagtcac ttgcatatca acttgattcg caacaggcat 60
atggatcaac ttgatccgta acaagcttgc ggatcatcta tgtcaactac ggatcaaata 120

tagcttctgc agatcaacaa aaccctatgc ggatcacgtc atagcataca cggatcaagc 180
tgaatgagat ggggtgcacca gcaataatgc taggtgcacc tagcaacacc cattttaaatt 240
tcgtgatcta ttcacaagtt tccgtgtttc ccatcgtcac cgcttagctt aggggtttttt 300
taaccaagat tttcaaaatc tatctataat aatttatcta tcccaaaata gatccgaagc 360
ccacatcacg aaataagatt gtttttcaag cttcggataa cacatattat catttgatgt 420
t 421

<210> 17306
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17306

tctaagttnt tagagtaaac tcaatattta aattctaattg caagttttta acaagtctca 60
tcactttcat cttcaaggtc tgccatctct tctctcagtc ttttctttca ccactactcc 120
tgtaggcctc ttcctcttct ttagtttctt catccccacg ttattcttct cgtactttgg 180
gcctgtttgt ttaacctttt tttaaaaata aattaagcag ttttctgttt ttttatgtaa 240
ttttttattt tgcatttaca ataatttggt tttttatatt tagtccttgt aaaatgagca 300
gagttttgaa tttggtcatt atattttttt atgattttca tccttataaa aatttgaaat 360
aattgttatt gtccttattt tcatgtgata aatgt 395

<210> 17307
<211> 375
<212> DNA
<213> Glycine max

<400> 17307

agctttgaaa tttgaaaacc ctagcatggg ataatctatt aggcaccta agagtttatg 60
aattccatct tcagaactga gataatcaac caaagaaaga tttatttgcc cttaagtcta 120
gagagacaag ctccaaaaga ttagaaaaga atgcttctct aaatctctta aagtgaagat 180
agattattct gatgggtcaa acaatagttt tggagattcc acatatgatg aagtagctct 240
catgtctatg aggttcaagc aaatgatgaa aaagaaaggg aagttccacc attcctccaa 300
aagaaaggac ataagattca agatgaaata cgaggaggat agcattgaaa tcatctgctt 360

tgaatgttga aaacc

375

<210> 17308
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17308

tgcttgtggg gcttctatgg aggctggatc tttgagcttt aattaggtcc tttaatggtg 60
atthttccacc atggaaatgc agtgggaaggc aaaagagaaa aggtgagagg aggcgccatc 120
cactatggaa caagccatgg aagaaagagc ttcaccacca agatgagcct tggataaaaa 180
gcttggagag gaagcttcaa tggaggaaaa gaaagagggg tagaaagggg gaggggggag 240
cacgaaattg aagtaagaaa aaaggagag aagtttaact ttgagttgtg tctcacaaga 300
ctctcattca tcaaagttac aacaagtgtt acacatgttt ctatttatag actangtagc 360
ttccttgaga agctttcttg agagaacttc ctaagaagc ttctttgaga aa 412

<210> 17309
<211> 384
<212> DNA
<213> Glycine max

<400> 17309

agcttagctt gatagcttaa cttacagaat gaatctgggg cttagcgtag gatggcgcac 60
ttagtgcagc tataataaat tttcaciaag aggaagtggc acttatcaca tcatccacgt 120
taagcccact gcttaaggtg caacttacag tgaagatgtt cggcctaacg taacaatgtg 180
cgcttagctg aaccattcag ccaatcaatc aagggtcatt gcgcttagtg cgagtgatcc 240
ctccccactg caattacttt ttgtgttctt gtgttctatg ttgtagccta taaaactaaa 300
ccctcgatcc ctctgcaggc tgaatatcca agcttcgtct gcagatcctt catttaagac 360
tacacccgat ttatgtagcc ctct 384

<210> 17310
<211> 424
<212> DNA
<213> Glycine max

<400> 17310

tgaccgaatg taagatacat cttcttcaac ctttgtcatt cttgactcca tttcattgaa 60
gcgcataatcc acttgcaatt ccaagggtatc aaacctctca ccaacaaagg tttgaagacc 120
atcaaaccctt tccataatct tcgaaagaag agatgaatct tctccttcat gtccttcttc 180
accaacattt ctagcacctt tcttcaccca agagccatca tgctccttta tgtaacccaaa 240
ggatgctatg actgaagcgc ctgtaaggaa tgatctcatg attggaacat aaggttcaga 300
atcaagaggg atgttgaagt gttgaaggaa aagggtaca agatgaggat aaggcaatgg 360
ggcattcaat cgcaatgcct tatgcatgcg atatctaaca aggtgtgccc aatcaatttg 420
taaa 424

<210> 17311

<211> 421

<212> DNA

<213> Glycine max

<400> 17311

tatgaataca acctatatat acgaaaagag cacaattata tttgtatgat gattaaaaca 60
cgggcgtatgc gtatattata agtacttcat cactaagggc ttaattaaga tattttcctg 120
accgcaccct gctatgcata aatgacgctg acagtcgact aactcgattt ttataacctac 180
aatcataaac ttgctagagt ctaccataac ctcaagactt tgacatcaat ggtgagatga 240
gggtccaatt tcaactgaaga attacgtgaa ataacatcca atttacagac atgaactcac 300
ctttgcaata tgactaacat ctatttaatt caaaagtttg acgtctgtat aaccaatgaa 360
catgcgcatt catcatccat ccoctgcagca tagaatgaca aaattccgcc ctcttttagat 420
a 421

<210> 17312

<211> 382

<212> DNA

<213> Glycine max

<400> 17312

agcttgccct gagaaggagt ccacggagga aatgcttacc acatcaaaag actggaaagc 60
ggtttctaata gactcctctg cagcctccac ataaggcata gaggatgggc agctcaccaa 120

gatgtcttct tcgcctgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180
gtggagtgtg gaggggaacaa ctcccattga gtggatccac ggacgcccc aacagacagtt 240
gtagggggggg ttaatatcca ttatctggaa ggtgacttga caggtgtgag ggcctatttg 300
tactgggaga tcgatctctc ccctaaccctc ccggcgggtg ccatcgaagg catgaaccac 360
cattgaactc ggctataacg gg 382

<210> 17313
<211> 408
<212> DNA
<213> Glycine max

<400> 17313

tgagatgagg aagtgttgaa gggtgaaact tcctgctttt attgttgacc acagagtggg 60
acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcaggtggg gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgacca acccgggcat agttggtcag tgagaacctg 180
tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggaacg aagaccacaa 240
agcaaggagg cttgtggtgg ctggccagct gtgaactttg attgatatgt gggttatggc 300
ctctggtaat cgattaacaa ggggtgggtaa tcgattacaa ggcttaaaaa tgaagacagg 360
gggctaagat ggtctctggt aatcgattta ccagggatgt aatcgatt 408

<210> 17314
<211> 348
<212> DNA
<213> Glycine max

<400> 17314

cgcttattct tatggctcgc ctccggactt cccccccgt gccaccccg aagatctatg 60
ccaagcccct actttcgagg ggcaactccc accttatgac gactatcccg ggctagacta 120
tgacgaagga gataccatc ttggccccct gctccacctt aaagatccgt gctcccatga 180
tctaccccaa ctgaacatag tccggcatat tccggcctca cccacacccg tgaagaatc 240
tgatctcttc ccggaagata atgtaaagac tgaggcgctt gaagagaggt tactagcagt 300
cgagtggcct tggtcattac ctcatctcgg aatcagcgga tctatgtc 348

<210> 17315

<211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17315

tcaccttctg gtcctcctca tagttgttgc atgagaaaac atgctctatt ttcattctccc 60
 actccaagta ggctccgga tcattctttc ctttaaattgg aggaatgttg agtttaatac 120
 catcaattcg gttttgtcta ggaacacccat cattccctct tctcctcctt tcttcgtcat 180
 tatgatctct atttccatt tgatccaacc tctcatggag cgcattcatc cgttggttca 240
 ttaacctctc caaatgttgc atcaaagctt gcatttggaa ttgcgaaagc cccacttcat 300
 cattaggatt agtacctgac atctcaaaca aacaaatcan acgtaacaag acaattatag 360
 ttgttggttg aataccctca cccactcaag gggtcacaca attatggcgt ttctctaattg 420

<210> 17316
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 17316

agctttaagt gtgattcctt tctttttctt gtcattctcc tcatgctgat tcaatcttat 60
 tagttccatt tcatgttccg gtaactttcc aaacaaagtt gcaagagaca tgtttgaaag 120
 atcccttgat tctgtaatag ccattacctt tgattgtcat tccctgctta aacatctcaa 180
 aactttatta ataagatcct tattgggaaa tatctttcct aatgatgcaa gatgatttac 240
 tatgtgtgtg aatctctttt gcatgtcctg tatagtittca ttaggattca tctatacaa 300
 ttcattattca tgagttaggt atttattcta gaccttttta catttgtagt tcttcatgg 360
 gttacttgta agttattcca cata 384

<210> 17317
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 17317

tgcaccaact tctcatttca tccataagat actagttcat attttaattt aatgttcagt 60
 aacaagacta aacatcataa taagacccaa gatataataa ttttttattt gatacttata 120

tgtatatact aaaaggaaaa ctgctgaaat tagtaattat tgattatfff tgcaacatat 180
 aggaaagaag acgttatgtg tgctffffta gt.gatacgat gttatgtgtt taacagacta 240
 ataatatagt ttacgtatt gaaacatcaa attataaata ttttgtataa aaattaatgg 300
 tatatagttg ttggatgtat ttattcagaa aaaaaggtta ttgggtgtat ttctffffat 360
 tggccctccc tgtcttctaa gtttaagttt gtccctgcaa catgtcattg accaattcta 420
 tgfff 425

<210> 17318
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 17318

gtgagaaata cttgctcgat atggccgacg tattactggt cctgtgcaca taccacgctc 60
 tagggcatgc catgaacctt gccatagatt ctcatgacta actgagctac accaccggcg 120
 gagcgttgct gtggaagtga tcccagatga gaacctttcg caagcggcca accaccacca 180
 acataactga gtgaccgtga tacgaaggaa gaccaacact actgtctaga gagaaatcct 240
 gccatggtta cgccgaaatc ggaaggggag acaggaggcc tggggcacga ctgagaactg 300
 acttagttgg ctgactggtg gcagagctcg tgaccaatag atggatgcct cgatgcatag 360
 atggccagac aaaattctct cgagtacggg ctaacgtcgt cattactccc atatg 415

<210> 17319
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17319

ntactattac aaaccaagct tagtgtgtgt ttacataag cctaaatgcc taaaaataa 60
 gcataaacct taataaaaat catffffcat aaaatataac ctaattgaaa atfffftaaa 120
 ttcaaaaata ttctcaacgc ttcacgcgaa tcaagttgat ccgcaagttt cacgcaataa 180
 gagcacggat caagttgacc cacaataaga gcacggatca agttgatccg tattaatcct 240
 gcggatcaac ttggttcgcg tgaagcttgc ggtagaactt cattcgcatt ctacctgogg 300

atcatctcac actaatgcgg accatctaca ttcacactat gcatacgcg atcaaccaca 360
cacatacagc atctatggag acgcaaata gaagggagtg gcttaccttg ac 412

<210> 17320
<211> 408
<212> DNA
<213> Glycine max

<400> 17320

tcttgttctt attttataag ccttatattt ttatatTTta aaaaacttat aatgtaatac 60
ttaagtccta aaatactctt attcaataag atggaaaggc atgtcaaatac gaataaacia 120
agggaaaaga aagcaacaaa aaaaaaagct accatcaaga tctaaatctc caaggagtaa 180
gaagcttttt ggatagcaaa gcttaaaaag aagaagaaaa acaacatttt caaaagagag 240
gaaaatagat aaatccaaca tgggttcaac aaactactct agcactagcc tttggaacia 300
tttcaagcaa tacaattcc aaaggttatg tatgtcttgg cctttgctat ctttttccgg 360
cctttggatg aaacaagaat gaatgggggg tccagattca cctttgaa 408

<210> 17321
<211> 172
<212> DNA
<213> Glycine max

<400> 17321

agcttcttgc gtagccgctc ttgggtgctca gaaaatccca aaaacaaatac cctcttatta 60
ctagctatTT tgaattcttt agctcttgaa tgtacaacct tcaaattggt gctcgttccc 120
ctctttgaga atgaggagga ttctcatagg acttcatcca actgatgttt gt 172

<210> 17322
<211> 416
<212> DNA
<213> Glycine max

<400> 17322

agaggagtgg aatccaatTT atctaatac taaggcctagt cttgatttga tagatattct 60
attaacacca tttaaattcc ttggacccaa tgacaggcca taatttatTT cagacagact 120
ataaagacat catgcaacta aaataataat atataccaat gacttctttc atattgatgc 180

ataggaagat atcttaaata caatgtttct cgccatatct tgatttaca ttacaaacaa 240
 tgctacagaa tatggacaac ataaaactaa gtccctgacc aaacggccta agcagatggc 300
 aatgataaac ttatcagtat catattcaca ctgtcagtcg tatttcctat tgcaattatg 360
 actcacatat acaacatact gcgcagatga catgatataa ccacccaaaa ataatz 416

<210> 17323
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 17323

agctttatcc tcacgtccc tcacagtctt tagatttggg agccaatcca atccttgtgt 60
 tcggactctc agccacttat gatagccgcc gatgatccca ttactgcttc ccctaagctc 120
 tctgtccttt cttcacgctg catcccatgc cttgcgaact ccttggagta ccctcgctt 180
 gtggtcacta aaaccccgctg cgatgaaagg cgtgatgctt tcgtctaatz gcgctcctct 240
 catggggtag ccaagctgtc ttatggcgag aacaggatta taattaatac aacccttgt 300
 tcccatcaag ggaacatttg gacatccttc gcatgaagat agaatzctga ttctttcttc 360
 cttctagcaa gggaac 376

<210> 17324
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 17324

tgtccgcaaa aaattcacta aaaaggattt taaggtttga tacttcaatt tttctcacta 60
 agtaaaatzg atccttttta ggtccaacgc cttaaaagga ccaccttcca agtaaaaaga 120
 atcgcttgat tcacccttta gaaagaacta cgtaggctctg atttctctt cgatggaggg 180
 tacgtacgag caagagcccc acttttgtcg acctcaaaaa ttaaaaagaa ataaaagctt 240
 aggaacacaa tttcacacaa ttctaattta aggctgttat cctttgggat aaacgtgaga 300
 ggtgctaata ccttcctcaa acgtaaatat aactcccgaa tctggaatat tcttcatgac 360
 cggtttctt cggtttttct gacattttcc acaataaac gttggtgacg actccgcg 418

<210> 17325

<211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17325

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tgtcccaatt gagccagctt attcctcttg ntgatgcacc ttttgatccc caccaaaata 60
aattcagcat catttaaate tcacccctcta gtgtgggttg aagcaagtgg atactcatgc 120
aatatgaagg gatttcctaa ttagaagttc cttattacta gctttggaaa gatactttct 180
cgagtagtga ttgatgcatt ccaaaatttg atcctttata caactgaaaa tttctttatt 240
tcatttgctt atgatagaag ggaggcctaa gcattttcta gaccctatga ttgtataggc 300
acccaaaaga aacatgatag ttgcgctcaa atattgctga gtgttggtgc tgaaaaaata 360
ttatgacttg tctaaatata tcatttggtc caaagccctt cc 402
```

<210> 17326
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 17326

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agcttgttgt ttgttgccaa gatgtgtagc agcacctttt tcggcgtgca gctagggctg 60
agcgtctgag catttgtttc ccttgcgacc ccatttcagt aacccttggt cattcaccaa 120
ctctcatgca gaaatactac tcaggcaaat tttctcttta tataacttta ttgatttatt 180
taatttaaga ttaataatag tataaactta agaaatgcat ttaataattt cattttctta 240
aaacttatta tgatggacct cgatctctag atcatttttg caaatttagt caatcacgat 300
aattaaaact caataactaa gctccaaaaa aatattttcg ttaccaatgg caatttttgt 360
cactaatgtt ggcgtcact 379
```

<210> 17327
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 17327

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tgacaaaagg cctacctcat gtggtatgag tccaatgaag ttgtttaaac cgaagctaac 60
gcgagataag gaagaaaggt ttccaatcca agttgggatt gttcctgtaa gattgttaag 120
```

acctgcagct agcactctta gatttgtgca gtggctgaga ttacttggaa aactgccacc 180
aaagttgttt atgctgaagt ttaggtattg aaggatatgt aaacgaccaa cctcttgagg 240
aaattcacca tggaagctat tgtttaacaa gttgactgtg gtgaggaatg tgagggttcc 300
tatgaagggg gtaagagtgc ctccagtctc cagttgctca aggctaaggt gtgtgactct 360
tccattggag atgttgcatt tgattcctat ccaatcgag tgattgatg 409

<210> 17328
<211> 562
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17328

ctcatctaca tcatgcntcc gtctcnttgt gattaggtag ttcgtctgtt gtacatctgt 60
atnacatatn ttaatctaca ncaactcgag acgcgaangc gtgttgctgt gancactata 120
agcaaaactcg agcctagcgt ccgggggtac tgtataggta ctctgtggct tgcgggcttg 180
ttcttattta tcaatccaca tgaaaggaag actgggttct atatgttata tctaccgtg 240
tgccctcgaga tgagttgcta tattaatggc gatgtgttgt ccttccgccc acccatagga 300
agatgaagcc tcgtgggttag gtttttcatt aaagggtgac gcccctacag cttgacaagc 360
agccatattc tgcccaatat attttgcttt acgaggagtc acgagcagct acactctgct 420
attttgatca cccaagaat ggtgggtgtt ctaatacgaa aacataccca gcagtgttta 480
ttgtgttctg ctgagaaacc attttagctt ccagaaagag aagggttctat gggttcttca 540
ttaacctgct tatcacacca cg 562

<210> 17329
<211> 414
<212> DNA
<213> Glycine max

<400> 17329

tcttatccaa ggctcatctt ggtgggtgaat ctcttcttcc catggcttat tccctagtgg 60
atgggcgctc ctctcacctc ttctcctttg tcttccgctg catctccatg gtggaaaatc 120
accattaaag gacctcattg aagctcaaag atccagcctc cacagaagcc ccacaagcaa 180

gtttccatca ataaacttca taagatttta tcaatgtgat cataattatc ataatatcta 240
 cctagagagc aaagctcatt cagaatgggtg tggaagcgtc caaacatggg ttagatatct 300
 tctccttctt ccatactaaa gagttcatatc ttatgtgtca gaagactcaa cttgttatgc 360
 ttaccttgg aggacccttc gtaggtaatg gctaagggtt cccacatctg ttg 414

<210> 17330
 <211> 509
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17330

tccaacgca tgcaccatgt tacagggttc aaatattatg tgcntattat tatacccgac 60
 ggcgagatga tctttattct tcttggaac aactcgttcc gggatcctat gatcgactgc 120
 gagctgcaga ttataccttc tttttctcca aaaatataat cgagacggga caccctctga 180
 cacaagtaaa agaccatccc cagcagaaag agagccagac cgactcacag acccaccgaa 240
 ccccgacaa taataataaa aaccactgcg cgagctatat acaagcaagc tcccacacaa 300
 agactttcct ccctttccga tggcacttc cgagctatga cccttcttac taggagaaac 360
 atttactggc gggcatacct gcagaaggta ttccagacac ccctcccat agtactatga 420
 atccagagcc aaaagcgtgc tatcatagag gaggtgcccg acacaatatt tgaccctacc 480
 tcctccaca cgattaggtg aggccctcg 509

<210> 17331
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 17331

tagccgaatt cagatcgaat tgaagttagc ttagcttatc cttggccagc ttagcggacc 60
 aaatcagcct cagatgcaag gggtgggtgc taagcgcgtg aacagagatg cacttagagc 120
 gaggcttgcg cttagcgaag ggactacttt tcaaaaaaaaa gttttctgag ttatttttca 180
 gtcctttttt ctaagaaatt gaaacctta tgttaaakat tcaaagaaag gctgatatac 240
 tcctatgtac agatcatata gcaagttcca aatgattaaa tgcataaaaa aacaagata 300
 acatacatta aaactgggtt gcctcccagg aagagcttct ttaacgtcat tagcttgacg 360

catagcttaa taccttcaat gtggcatgaa agtcacaaag aacacatctt ccttgaagtt 420

<210> 17332
<211> 384
<212> DNA
<213> Glycine max

<400> 17332

agcttggtat gaacatccat tttgtaagca gagaaaagaa cgtttccaca aacaataaccg 60
aaagatagac atgttattga gggcttttgt gcaaatacaa ggaaaaatgc aattaccatc 120
ttgctcctct tagcctcttc atcgatgtca ttaccatcat caccaatagc tttcctggaa 180
aagtacatgg catttataaa tgtcagtaca tcaataacaa tatgcatatc atgagagtga 240
aacaacaaaa caaacagata ctggacttca aaccttcttt ttgtaatgac ccgatcatca 300
tgaccagcct cagcatggcc atggccatgg ccgaattcag gaaccctgct aacaacgttc 360
ctcagaaagt caaagacatt atag 384

<210> 17333
<211> 422
<212> DNA
<213> Glycine max

<400> 17333

tagaatacct gctgccaatt cagttcccaa gtctaattac aatttcattt ccattaaatc 60
tgtattgtct tgtaataaag aagtcattga tatttggtat ttccggttgg gtcacacctc 120
atatgatagg atgcaagtgt tgaaacaaac ttatcctatg ttgacttggtg ataaaacctt 180
tgtttgtgat acttgccata aagcaaaaca gagaaaactt ccatttccca atagtgactc 240
ctatgcttct agtcctttct ctttgatata tgtagatatt tgggggtcctt gtaccacaac 300
tactttgaat ggacataagt attttcttac aattatggat gatcatacta cgattgtttg 360
gagttttata atgacttcaa aagctcagac tcaaactcat ttacaagcct ttgtttccta 420
tg 422

<210> 17334
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17334

agcttggtng attatgggggt acccatcaca tgtggtacta tgtggcggtc gggcgatggt 60
gcacaacaag ttttccacat tcacaaatcg cgcataaacc caccatcccc tattgcccac 120
ctccaactga gctcacgtac tcccacgtag cccatatacct cgtttctctc aacaccgggt 180
ccccatcaat cctcccaagc ttccccaaca tccaggtaat acaacattca aacagcacia 240
actatcacag ccaataaaac agggcaaagg cagaaaactc tgcccaaac accaaccaaa 300
atcacaactt ttctcactta tagacccag taacaattcc ttcgttccag ttcgttaacc 360
gatggatcga ctcgaagatt ttactg 386

<210> 17335
<211> 428
<212> DNA
<213> Glycine max

<400> 17335
ctcagcttct caaggaagtt ttctcaagaa atcttctcaa ggattctacc tagtctataa 60
atagaagcat gtgtaacact tggtgtaact ttgatgaatg agagtcttgt gagacacaac 120
tcaaagttca acttctctcc ctttttcttc cttcaatttc gtgctcccc ctcctcttt 180
ctctccctct ttcttttctt ccattgaagc atcttctcca agcttcttat ccaaggctca 240
tcttggtggt gaagctcctt cttccatggc ttattcctta acggatggcg cctcctctca 300
cctcctttcc ttgtcttcc gctgcatctc catggtggaa aatcaccatt aaaggacccc 360
attgaagctc aaagatacag cctccataga agccccacaa gcaagcttcc atcaagtgg 420
aatcagag 428

<210> 17336
<211> 382
<212> DNA
<213> Glycine max

<400> 17336
agcttctgga tgaataatcc acatctgcac atgaacgtca ttgtcaaac gagatccagg 60
gccataata agactccgtg aatgaaggat aattacaaaa ctttctgtt tattatcttt 120

ggttgtgtga attctagtga ggtctatagc ttgaaattaa gttatttttca ttggaccaac 180
 aaaagagcga gagacatgga agaccctcgt atgattaaag acaagtcact ctaccaatgt 240
 gcattgggaa actgttatga tctgtacttg cataaagaca aatagcttgc cataaacatt 300
 tgatatgggt agccttatca tggaggtatt ggccgtagcc atattgatag tgacatcatc 360
 caccgtccta acctaaatgc aa 382

<210> 17337
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 17337

tatattaatt aaatataaag caaaatcatt ttgttaattg ggatttatat tccaaagttt 60
 gaaaatggaa atcttttctat atggagaggg gaaattcggg ctcagagttt ggagcaaact 120
 ttctaagtaa taatttcacg gattcatatg aaagtactaa taatttcacg gagtaagacg 180
 taagattggc aatccccaaa agccatataa ttgactacta attactcatc atatagcttt 240
 tgaattaagt ttgcagaatt tattatgttg actagttaag gtgatgaaat ttcgaactaa 300
 ctatagtgat agtactatct tgcttctcca taattcacia agaccagcat aaccaactct 360
 ttgacgggtg acttgagttt aaaagttcta taaagaaaa atggagattg aat 413

<210> 17338
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 17338

tgtagcaaat gcaaacggcg ataacgtttt atctctttgt tcgattgagt cacgtaatac 60
 atcgaaacgc tcgaaattga aaacagaagc tctgtgcaaa ttctgacgac aatacatttt 120
 aactcggatg tccgattgag tcccgtataa tatcatgaca ctcgaaattg agaataaaag 180
 ctctgaacaa attcaaacga caataacttt gtactcggat gtccgattga gtccaccaat 240
 atgtctagac actctta 257

<210> 17339
 <211> 414
 <212> DNA

tagacatttc ttccatctgg acgtagccct taggttggtc acgcagctcg tgcattgctac 240
 tgggtgcacaa actgttttgca aacttgccgg ggcgtaaggc gaggagcatg gaatgcaatg 300
 ctacctcatg gttaagattt cgaatctaga cagctgtgcg ctcaaatttg tccatgagtt 360
 ttctgaggga ctcatcatct gcttggtcgta gac 393

<210> 17342
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 17342

tgcttggtat gaaaagttaa gttctttttt aactgaaaat agttttatat gaaggaaagt 60
 agatactact ttgtttcaca aagattatgg aaccctaaac cctaatactc tagatatata 120
 tggatgatat catattcggg tgtactattg actctctgcg aaaggatttt tccaagttaa 180
 tgcaggccga gatcgaaatg agtgtgatgg gagaattgaa gtttttcctt ggacttcaaa 240
 tcaaacaagc agacgaaggc atatgcatac atcatacaaa gtacgtgaag gaactcttga 300
 aaaaatttta gatggacgat gcaatatata tgaaaactct catacatccg accactatac 360
 ttagactaga tgatgat 377

<210> 17343
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 17343

ttgtgtaatc gattacactt attgggtaat cgattactca gcgactgttt ctgaaaaaat 60
 cagaagatgt aacccttcat aaggttcttg actttttcaa attggattta agtttttcta 120
 aaagatatata ctctctataa tggctcttctt gaccagacat gaagagtcta taaaagcaag 180
 gctttgattt gctttccaag acacttttta cattcattca ctcaatcctt tacaagtctt 240
 gactctcttt gaacatcttc ttctgttggtg aaccaaagc tttctgaagt attctggatt 300
 ttcaaacctt gaaaactcgt gctatacatc tattcattct atttacgctt tgccacaaag 360
 aatgcgccat agactaaccg cctgaattct ttttgtgtgt ttctta 406

<210> 17344

<211> 381
 <212> DNA
 <213> Glycine max

<400> 17344

agcttgtacc aaaaacaaaa tattttttta aaaaatatta catgacaatg aaatcgctat 60
 ataagatact acaaagatca catttttaaaa aaaattcata tttaaataacc cattttttggc 120
 gttttttttt tcgtgggtgt ggcagtgccg tgagacaatg gaggggtggcc atttctcatg 180
 tttggacgtc aaagaaccca aaaacattat tcccgttctc cggttctgtc aaataacagc 240
 taaaaacaaa gccagaaaat ccaaaaaaaaa taggaaagtg accttttttc atgttcaagt 300
 acccatgttt ggggaattttt tccgtaggtg tggcagtgcc gtgagacaat ggagggcggc 360
 catttctcat gtttggacgt c 381

<210> 17345
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 17345

cttctgggtgg gacatcttga cttgctttcc aatctgacat tcaccactta ttctgccttc 60
 ttctattttc agattgggaa tgccctctaac agcacctttg tcaatgattt tcttcatgcc 120
 tcttaagtgc agatgtccaa atctttgatg ccataatttg acttcatctt ctttggagaa 180
 tagacatgtg gaggagtaac tggtttcttg aggggtccat aggtaacagt tgtcctttga 240
 tctgctgccc ttcattaaga cttcactctt ctcatgtgtc accaagcatt ctgactttgt 300
 gaagcttaca ttgaatcctt catcacacaa ctgactgatg ctgatcaagc tcgcagacag 360
 tcccttcacc agcagtactt tgttcagact aagaagtccc tcatggacta tcttt 415

<210> 17346
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 17346

agcttcatac aaataagaga aaaaatgttt ttggtgaaag aaaatggaaa aagatgaggg 60
 agaatgtctt ctccagtctc tctaccctat ttctctctgt ttttcaagta gcaaatgctt 120

ggccagattg tggatgtggt ggtgactgtg gtgacctttt gttttttgcc aatctcagtg 180
 ttgtaaaggc tcttatactt ctcagcacac gaaggctcgc tcatcgaaca tgtctcattg 240
 agtaagggta agtgaaaata cactaagcga gctcgggcgc gctaagcgcg aaaagagaca 300
 acgtcctcat tgggcgggct ggctggatgc tgagtgcgca gatctctaac t 351

<210> 17347
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 17347

taattcaagt agaatccatt aaaacaaaa tgtaaaacat tagaggtcac atttaactat 60
 atgtaacatt aacatcttct aggaactttc gtgcttggtc gccttcaca acactttcat 120
 tgatgacagc agaagcaata tcactatctc ctacataatt aaatgtaaag aaaattaata 180
 gaaataatcc taaatataat aaataaaatg ttatctgaca aacacaatga tttaaaagga 240
 agacaataat tagaaaatag tgtcatgtga ggaagctcca aaccactgat atgtggaaaa 300
 tatagcataa attttaaaaa cttgacatat aaaaatacac catgagctag gaagccttga 360
 accactgata tgtggaaaat ataaagtatc catgtacata ttgcatcaaa t 411

<210> 17348
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 17348

agcttaacaa ccctaaattc tgattgtaat ttacatttag caacagtcaa aatcacttga 60
 cgttcaatth atactttta gatgcgtctt gattataacg aatgtcttca caatactagc 120
 tagatggatt attgtgatat cgtgatgtgt tttttaagaa tttttttaat tcttaatttt 180
 attggtacta atatgtagaa ccatgcaata catgagaaat tagtgtttaa tttttattat 240
 tattttaatt aatatgtaat ataagcattt tttattcttt tctctttcaa gtcaatttta 300
 aaaattatth aatgtaaaga aaaatgagca tgattttaga aaaagggaga gaaaagaaaa 360
 taatagcaaa gaaatt 376

<210> 17349

<211> 412
 <212> DNA
 <213> Glycine max

<400> 17349

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tccaccctgc ctgtggcatg gcaacaagca catgggttcac taatcatgaa tgtcacgctt 60
ggtcgaacct gtcaaacatt ggtaaagcat cggtaattca ttttaataaa tcttactaaa 120
cttaactgag tgttgtgcca acaattatca gagggaaagc aacttgaaaa agaaaaatgt 180
agttcaagca ttattctttt caatctatag ccatttttagc atgtctgagt tcagtgaagt 240
gaatcaagtt gaaagatggg gatcagtaaa ttgggcatac tatttgagaa gttatacttg 300
aataaaacca atggaaagtt atatacaaaa gaaaaagggg gaaggctgct tgatgtttca 360
tatgaaacac atctttcttt tccacacttg tctctgataa tgggataaca aa 412
```

<210> 17350
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17350

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cagcttcatt aatagacttc ctccagaagc ttcattaaga ggcttctaac acactcccaa 60
catcttttca aagatcccaa ccgtcatatc atggaaaatt gtctttggaa gttgcaatcc 120
aaatttcgag aagatccaac ggtaaacgaa ggctggacag agtttttacc gagacaactt 180
catgtagctn tctctataag cttcattaag aggcttcctc cagaagcttt ctctgtggctt 240
ctttgagaag ctatctcaag aggattcttt gagaagctag atccttatct atccacaccc 300
ctctattaac taaattaact tccttaaaaa taattacgga tgaaaataat gtaacanata 360
atcaaacatc aaacataatt ac 382
```

<210> 17351
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17351

```
aagcgcgggt ctgggggacg aagggtcaagt ggctcgcgata tacgaagatg atgttccgag 60
```

tacattggat ttggtacgac catgccctct tgatttccag ctgggaaatt ggcgagtgga 120
 ggaacgcccc ggcattttacg aaacgagcat aatgtaaacc tttacggttt taaaagctct 180
 atagttgggc ctaggcttta gagttttttc ttttgtaaag gctttgtgtc ttttgttttt 240
 gaatttataa tacaaggatc tttcttcacg tggtcctacg tctctaccca ttctcatcca 300
 tttgcatgtt tacttcttta tttctgaaac ggcagatccg atgacgagtc ccccgagggt 360
 actaatcct gtgacccgcc tatcaacttc gagcaagaaa cgaatcanac ggaagatg 418

<210> 17352
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 17352

ctaccaagtt atcttgagcc cttcttcacg aagcataggt atttaacctc cattttcaac 60
 tctaagcttg attttcattt cattttcttg ctctattctc acatgtagtt tctaaatctt 120
 atttttgcac tcttgaagggt tggaaacttg aatctaaact ccgccattct tccctctaaa 180
 tttcatggag actacaagag gtagggaggg gtctccatct cttgaaccct atgtttgatg 240
 ttaaacttcc ttgaacatgt tgctgtcttg aaattcttgt gcttgcttcc ctattatgga 300
 tctatgtgtt gagctatttt acttgagttt ttttaagcaa aaatgagttc tatgaatgtt 360
 agaacctaag gttagcctta tatttcactt aaattggatt ttcttgcaaa agttatgaat 420
 a 421

<210> 17353
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17353

agcttgtaat cgattaacgt aattgtgtaa tcgattacca gacataaaaa attcaaattt 60
 caagtctaaa gagtcacaaa tcttcagaaa ctaactgtgt aatcgattac cacttttatg 120
 taattgatta ccagtaagga atttttgaaa ataacttcca agagtcacaa ctgttcaaga 180
 aatttgttat gaccatctaa ggccataaaa taggtgattt gggatacaaa attttttaga 240
 gtgtttctga acaaaattgt cttatcctct caaaacaaa ttgtcttctc actctcaaaa 300

tattccttgg ccaaacactt gcaaattcaa taaggaatct tgaggagct tcacattgta 360
 atatccttct cttaaagaga g 381

<210> 17354
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 17354

tgtcccaatt gagccagttt attcctcttg ttgatgcacc ttttgatccc caccaaaata 60
 aattcagcat catttaaatac tcacctctta gtgtggttgg aagcaagtgg atactcatgc 120
 aatatgaagg gatttcctaa ttagaagttc cttattacta gctttggaaa gatactttct 180
 cgagtagtga ttgatgcatt ccaaatttg atcctttaga caactgaaaa tttctttatt 240
 tcatttgctt atgatagaag ggaggcctaa gtattttcta gaccctatga ttgtagaggc 300
 acccaaaaga aacatgattg tttgctcaa atattgttga gtgttggtgc tgaaaaaatt 360
 ttatgacttg tctaaattaa tcatttggtc aaaagccctt ccataggtat ctaggaattg 420
 ag 422

<210> 17355
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 17355

agctttcatc cgttcttcga cgctcttcat tcgttcttca tcgttcttcg atcttcaacg 60
 ggtaagtacc tcgaaccaag cttttcgatt cattctatgc acccgtagtg gtccacattg 120
 tgttcctgac atttttatcc tcgttttggc tactttttat accccctggt gacgtgctta 180
 agccatttta cttaagtcac ttctcgctta acttaaaaat aaaataagtt tccaccgaac 240
 atttgaattg cattatccgt taacttcggt taaaatcaat tccgaccgtt cggtcgtgcc 300
 gtaaccacgt tggaatcaa aaagaggtag aaaataatat aataatcaa aagacatctt 360
 ttagtgaaat aaagcggaca at 382

<210> 17356
 <211> 420
 <212> DNA

<213> Glycine max

<400> 17356

tttgttttca attacgagcg tcttgatata ttacggtatc ttttcggaca tccgagtcaa 60
aagtgattgt cgttagaatt tgctcagagc ttctgtcttc aattacgagc gtctccatgt 120
attacgggac tcaatcggac atccgagtaa aaagatattg tcgtttgatt cttctcagag 180
cttcaatttt caattacgag agtctcgata tactacggga cacaatcggga catccgagtc 240
agaagttatt gtcgtttgaa ttggctcaga gcttctgttt tcaattacga gcatctcgat 300
ttaatacggg acacaatcgg acatccgagt caaaagttat tgtccgttgg atttgctcag 360
agcttctgtt ttcaattacg agcgtctcga tatattaccg gactcaatcg gacatccgag 420

<210> 17357

<211> 374

<212> DNA

<213> Glycine max

<400> 17357

agcttgccctg aaactatatg agatcccttt gtcgttgccct tccaacgagg gtgaagctta 60
aggagaacct aatctcctat ctggtagttc acttcacgac gtttcccatc agcttggttt 120
ttcatagcag cttgttcctt agaagcttat ttcgaatagc ttggaaagtg ttatccctat 180
cagttaacat ctcttcaacg gcctcaatgt tcgaagacct tgtaatatat tcaggaaagt 240
taaagggttt tcggccaaag gtgacaccat acggattggc tccagttccc gcattccatg 300
aagtattatg ggaccattcg acccacggga ggagcttccc ccccatgctt ggccgacgat 360
ggatgaaggc tcgc 374

<210> 17358

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17358

tctaaactnt atacaagaac gaagctctga taccacttgt tagacaagtg gcctcagata 60
tcttaattag ggggggtcga attaagatat tgcaaaactat ttccccaatt aaaaatctat 120
ttcaatttca atgcaagtta caagttccct taaaatgaac tcttaaataa tgattcaaatt 180

agaacaatct gaatataaat gtaaagcaat aataaataaa agagttaaag ggaagagaaa 240
 gtgcaaactc atatttatac tggttcgacc acacccttgt gcctacgtcc agtccccaag 300
 caaccgcgtt gagagtttca ctatcttgta aaatcccttt acaagttctg agcacacaag 360
 gacaatcctt cctttgtggt catatctttt tacaacaaga gaccctcggt ctctcaatcc 420
 ct 422

<210> 17359
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 17359

tgtttccatt ttcaattaca agcgactcga gatattacgg gactcaatcg gacattcgag 60
 taaaaagtca ttgttatttg aatatgttca cagctactgt attcaatttt gagcgtcatg 120
 atatattttg ggactcaatc ggacatccgt gctaaaagtt attgtcgatt gcatttgcta 180
 cgaggcttcg ttttcaatta cgagcgtctc gagatattac gaaactcaat ccaacctccg 240
 agctaaaagt tattgccgat ggcatttgct acaagcttgc gttatcaatt acgagcgcct 300
 ctatatatta cgggacttaa tccgacctcc gagataaaag ttattgtcat ttgaaattgc 360
 ta 362

<210> 17360
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 17360

tcattgcta acaagccaac ttacaacagc aagccttatg agactcagca taaggatgca 60
 cagaccaaag ttgcgtatgt aaaaaattg tatgaccaag tgaagggtgca aattgcaaag 120
 aagaatgaaa gctatgccaa gcaagcccaa aagaaaagga aggaagtggg acttgaaccc 180
 ggtgatgatc ttggacattt gaggacaaat gttttccaag aaggaggga tgatgagaat 240
 catgaaacag gccaaatata gtctaaaggc ccaagtggag aaggacgaag gcccaagtgg 300
 agaaggacaa agcccccgag tggagaagga tgaaggccca agtgagagaag gatgaatgcc 360
 cagaggcaga gacactatca agactattaa ttgatgctga aggccaagat taatttg 417

<210> 17361
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 17361

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tttcttgcaac tgcaagtctc ttagatcttg tagaaaagct agattgtaac ggaatctaataat 60
tgggaatgaa aacataatct cagatgcaag aagctaaaac accaaatgag aacagtccaa 120
ctctagatat ctagcaaatac attcacatga tcatcatagc tattattttc catacaataat 180
ttatcttcat caatatccat ggcagtttct ctagattcca tcaagttcat tatcaaatta 240
agttttctca agttatctag agggggacca acaacaacac taacatcctt tcctacttga 300
accaagtttc attcggagta tccaaatcca aaccaaagtt atatgaaatt ccatcattat 360
tcctaatacta atcatcata 379

```

<210> 17362
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17362

```

ntaatatatac aacagactat gatataatat ataagactcc atggacttag tttaaaaaatt 60
attagtatgt ataattaatt aaatagtaaa taattaatgt atttgatatg caagatgggt 120
gttatactgt tagttttttc tttttttgaa acaaagagac tttattaccc ctttcaaata 180
ctagtcaata atacaagtag gatgtgtctc aaaatcttga aagctagtgt aacttctaga 240
agcccgagct aataagtgag ctattagatt tgtttgctt ggagtgaagc aaactttgta 300
aagcagtgag gatttcaaca aggatttacc gtgccttatt atttctcaa acccgagct 360
atctatatgc tccttattga cactattcga tattctttgg cagttcactt caatttc 417

```

<210> 17363
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 17363

tgctttgctt ttgctctcct acagattgag ataatgaag aaaaattcaa agcttccctt 60
 caccgatccg aatgactgag atgaatgaag aaaagtccaa agcttccctt ttcctcgcca 120
 acaaactgag atgacggaag aaaagagttt agtccaaacc ttcctatgtt ctctcccaca 180
 aactgagaaa tattgtagca tgggagttgt tgcgactggt ttagacaatc ttaatgttgg 240
 attttaata acctctcccc ttgtaaaata aaagaaataa attatagatt tccatattgt 300
 acgtgatga aattcactca acctttcatc ctttcgtaat ccataataaa cccaagaaac 360
 aaattataaa ttagagaaa 379

<210> 17364
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17364

tgcttcacag aggtccagga aggataaggc ggccgatgga actagtcttg ctcttgagta 60
 tgacagtcac cgcttttagga gcgctgtaca ccagcagcgc ttcgaggcca tcaagggatg 120
 gccatttctc cgggagcgc gcgtccagct caagacgtta aagaagcgc actaggaggc 180
 aacctagtac cttttgaatc tatgcttgtt atttgatcac tttttatagt aggacgcacc 240
 tagttgctca tgatcctggg aatttaata aaacaagcgc aagctcgaaa ggtagtcata 300
 cctcacaaaa tatatatatg tatgtttagg tagtgaaaat accttagata tgcatgtatg 360
 taaacaaaaa aacacttcac aaaatatata tatatgtatg tntaggtaga aagatacc 418

<210> 17365
 <211> 329
 <212> DNA
 <213> Glycine max
 <400> 17365

agcttggggt taaactctct gtagttgctc tattgttgtt cttcagatta aaccaatgag 60
 gaaggtgaaa ctgacgacga aggtgctttg agtttttttt ttcctttctt tcttttcatt 120
 tgttcttgtt tgattttatg tgttggggtt tgatttcgac gatgcgatgt gttaggattg 180
 ctgacgttgg tttttatttt gttccgacga ggaaggtgaa actgatgacg aagttgtgct 240
 gaggtttatt ttggtttttc cttttgttct tttcgattgt tcttgtttga tgttatgtgt 300

ggggatttga cttcgctggt gcagtgtgt

329

<210> 17366
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17366

tccatcagga agggctcgcc ctgtgtggtt cagactttgt aaaaggagtt ttacaaagag 60
 agtggaaaat ttcaagtggg ttgcttgagg actggacgta gacacgggaa gtggccgaac 120
 cagtataaat caagtttgca ttccttcttt ccttaaactt cttttattta ttgctattta 180
 tcttttgctt taaagaagtt tattttgaat tgtcttttga gtaattcatg ttaaggggtgc 240
 attgttaatc caaaaagaga gagtgaaagt ttaattgggg aatagtcttt gtattttaat 300
 tcaaccccc accccttctt aagataactg aggccatttg tccaacatcc tattcttgat 360
 aactcacttc tctctaanaa gacaaacttt ccggaatgat aaaatg 406

<210> 17367
 <211> 377
 <212> DNA
 <213> Glycine max
 <400> 17367

agcttatctg ctgttaccaa ccaatggcca ggagcatcat gtgggcctcg cacgacctca 60
 gctgtctcca cgtatttaag tagtttaccg gcgcgaactg gcacaggagg accatctgga 120
 taaactccag agttaagtgc agttggagcc tgttttggag gaccggtggt gccatgctga 180
 gtgaacgaaa atgttgtgct caaatttggt agaaaagatt ttcttgaagc ctctggtgca 240
 gcagtccact ctgacttccg gatactgcaa ttgggtatat gagtaaagag aagccgtaga 300
 tgaagcacat tccttggcca gctccctttg ctaaggagtt gtgcacctgt tacaatatat 360
 acacctgcag aattaat 377

<210> 17368
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 17368

ctataaggaa catgctggag aggaattgaa gttggtgtgc ttccagaagt gatgccacgc 60
caactgaata ggccactatg tgatttcata tctagttaaa cacctcacat aaggatctaa 120
gcatcagttc actacttcag tctgcccacg tattagagga caataagcag tgctaattctt 180
caagagggta cctgggtctct ggaacacttc cttgcaccag agactcatga aaagactgtc 240
gatgccagat actactgatg caagataacc atgcacactc accacttctt taatgaataa 300
ctcagctact ccctcagttg tataaggggtg actccatgcc aaaaaatgag ctcaattagt 360
cagcctatcc actaccactg atatagtagc cttccctaga gctactggta agccttc 417

<210> 17369

<211> 378

<212> DNA

<213> Glycine max

<400> 17369

agcttccatc aagtggtaat cataaacaag agctgcaagt aggtgctcct taaacctcca 60
ttaatttttt gttttacctt ctcttccatt gttttttctt catttttcta catgtatctc 120
ctcaaatttc ttgtgctaag tgtttttaac atgattcttt agagtttcca ccgattaaac 180
ttggtataga agctagattt gattttctat ggttcaaatt tcttgatctt gttcttgaac 240
catgaattgt gttgagttta gggtcccttg agttttgtct tgttattttt ttgtggatga 300
atcctaaact ataaaattct tacaaaaata ttaaagtata agaaaacctc aaaaaaatct 360
atagtattt gttcacct 378

<210> 17370

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17370

tctcaagcaa gcttccgtca tgtgggtatta aaagcataag agcttcaagt aggtgctcct 60
taaacctcca ttaattttca aatttacctt ctctacaat gttgtttctt catttttgta 120
catgtatttc cttgcatgtc ttgtgctaaa tggtgttaac atgattcttt agaatttcca 180
ccgattaaaa ttgctataga agctagattt gatttcctat ggttcaaatt tcttggtctt 240

gttcttgaac catgaattgt gttgagttta ggttcctttg agttttgtct tgctatTTTT 300
 tgtggctgaa acttaaatca taaaattctt acaaaaaaat tgaagtagaa gaaaacctca 360
 aaagtctaga gtgacatggt cacctattgt agttntgtca tagaagtcac 410

<210> 17371
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 17371

agcttgtctg cttttccaac atcaagaacc aatgcttcca ctatagagcc actctccaaa 60
 atagtccag ccactatgga atcatatcaa aatgagaatt ggtacttgca cttgataaga 120
 accatccaaa catattagtt aataactaaa taccatgtgg gaaggagaaa aattacactg 180
 ataattggca ataaaaccaa aaacatcatt ataatgttca aagcttataa caagtccaac 240
 atcctcaaca gccttaactt tgccttttgc aaccatacca atgttaaata cttcatccca 300
 ctttgtatca gatgcaccag agccacagta ttccaacctt gcaatctaata tcaaagatgc 360
 acacaagata agaagtaata gaaaaggg 388

<210> 17372
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17372

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 gccaaagtagt taggccacta ttttagttta gttctagtta aacacctcaa ataaggttct 120
 aagcatcagt tcactacttc agtctgcccc tctatttgag gacaataggc agtgctcatc 180
 ttcaattggg ttcttggctc cttgaacaat tctttccaaa agagactcat gaaaagtctg 240
 tctctgtcag atactattga tgcaggaaaa ccatgcagtc tcaccacttc tttaatgaat 300
 aactcagcta cttccttagt tgtataaggg tgacttaatg ccaaaaaatg agcttactta 360
 gtcagcctat ccactaccac taatatagtg tcttccctt gagcttttgg taagcctcca 420
 atga 424

<210> 17373
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 17373

agcttggtcc atttgggtcca ttgctgagaa gttatgggtga tacaattgca actgcaaaaa 60
 caatcggaca atattgggaa gaagatctat cctgcatgag ttggcttgat caacaacctc 120
 atggttctgt cttgtatggt gcctttggta gtttcaactca ttttgaccaa aaccaattca 180
 atgaactagc tcttggactt gacctcacca atagaccttt tctttgggtt gtgcatcaag 240
 acaataagag ggtataccct aatgaattct tggcgtgtaa aggtaagatt gtgagttggg 300
 ctctcaaca aaaggtgcta agccaccctg ctatagcatg ttttgtcacc cattgtgggt 360
 ggggacatgc tacgtgcacc cag 383

<210> 17374
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17374

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 tatattcatc aggaaaacat catagtggaa ggaaattgca gtgttgatgat ccagaaaatc 120
 cttccacca agcataaaga tcttgggagt gtaacaattc cttgttcaat tggagaagtc 180
 aatgtgggaa aagctcttat tgacctagga gccaacatca atttgatgcc actctccatg 240
 tgttgaagat tgggagagtt ggaaataatg cccactcgaa tgactttaca attagctgac 300
 cgctccatta ccaggccata tagagtaatt gaagatgttt tggtcagagt aaaatatttt 360
 atcttcccag cagactttgt ggtaatggat atctctgaag atactgacat ccctgtaata 420
 tt 422

<210> 17375
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 17375

agcttggttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgaagaa 60
cggttgaaac ctttgcgaga ttcctcacgg aaaacgttac ggaaacgttt cggaagtgcc 120
tcggcttaga ttttcttcac ggaaacaatt tttccaagca aattcgaagg agagagaagt 180
gcctaagggg ctggaccctt ttcttcttca tttcctcccc tatttatagc aaaatagggg 240
aggtggttgc cgcccagctc gcccaggcga gctcagctcg cccaggcgag cagggttgct 300
tcctccagaa gcaaccgcct tctggaggaa tattccagag ggcccaagtg ggctgggtg 360
ctatttgcac ccccatnttt acta 384

<210> 17376

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17376

tggttcgagg tacttaccg ttgaagatcg aagaactatg attaacgaat gaagaacgtc 60
gaagaacggt tgaaaccttt gcgagattcc tcacgaaaaa cgttacggaa acgattcgga 120
agcgctcgg cttagatttt cttcacggaa acaatttttc caagcaaatt cgaaagagag 180
aaaagtgcct aaggggctgg accttttttc ttcttgcatc cctcccctat ttatagcaaa 240
ataggggagg tggttgccgc ccagctcgcc caggcgagct cagctcgccc aggcgagcag 300
ggttgcttcc tccagaagca accgccttct ggaggaatct tctggagggc ccaaattgggc 360
ctgggtgcta tntgcacccc catttttact aagtacaccc ccctctgctg ttttttttg 419

<210> 17377

<211> 386

<212> DNA

<213> Glycine max

<400> 17377

agcttcttta gtagcgtata ttattactta caaatgatt tatcaaagaa tctaataaa 60
aaattgaaat tgatgtttga ttcttctagt ccaaaaatta gaacttggga ctattttcca 120
attaattgtc ggactggctc ctccgacttt aagtcaataa acagaatata ttatcgtttt 180
atattaagta ggtaaatttt aaggatgaaa atcgaacttg aattgaacta atattcttaa 240

agattaatta caacgaatga agtttttata tgtcaaata gtttcagttc agatctaaat 300
 aaaagagtct gcaagatttt taacttttta atttgaatta cacacacatc atttataact 360
 cattccaaac tcaacattac acacat 386

<210> 17378
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 17378

tgtttaatca atactatgat agattgatga tggctaacca agttatccta ctatggtagt 60
 atgtgcttta acacaatggt aggaaatcca aaattgacca tattgcctac aagcttttga 120
 tcaagtaacc ccaatgacta agatggaaat gtattgtgat tagtgattac acccttaatt 180
 aacttaatag tttattagtt tattttattc ccatgcaata attcattttt agaactacga 240
 tgttgggggc ttattttcta aagtggctca gccttaaata actgaatttt agacctttgc 300
 tcatatacca ttaattcatt actatttaaa gttcatatga ttttatctat ttaaattgtga 360
 tatttatgtt actcttatat ttatattgtt gactgggtga tcaaggcatt atatatcatg 420
 att 423

<210> 17379
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17379

agcttctcaa tcctttttcc tatttttttt cctgtctttt ttgttgggtt gtatgtaaca 60
 aaaactatta tttgtgatta tatatttata tatttattgc aatgtgttat ctaatatatc 120
 taatgtaaag gagtagtata tggagaaaag atgtagattt gaccgctatg agagagagaa 180
 aacaaataaa aaactctctc tggatatttt tgattattat aaagatttgg gacttgaaaa 240
 aaaatctaaa cacaaaataa catgtagatt tgattgcttt gagagagaga ataaaataac 300
 aaactctttc tatacccaac gatagaagac tagactagga aagttacaca gtanagcaaa 360
 acattcttag agagaacg 378

<210> 17380
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 17380

tgattcatga ttcaattcat gtatctttcc attaacaacc gaaatatcac taccaccaac 60
 agctctcttg atggagcttg ggtatttcat taactgacca ataccaaaac cagaatttat 120
 tttaacacca gagtcttttag caaagttcac ccctttatca ttgttcaaac atttattggt 180
 ccttatgccc gaattgggtg attgtcttcc tgtgtggccg taatcagaat acagtttctt 240
 gggcatgata gggctgccat cattccacaa attttacta gtttttgtct ttccccata 300
 ttgattatca aattgcagaa atggtgaaaa ggataaaccc ttggccacat ttttagtttc 360
 tgatctagct ctagcagaag cattaaccac agcagacata tatttc 406

<210> 17381
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 17381

tatcttatgc tataaacatt tataatagac ccctcaaca acaaaaccaa cgacaacaga 60
 ataattatga tctttcaagc aatagatata atccagggtg gagaaatcat ccaaattctga 120
 gatgggcaag tccttcacat actacaacat cctgccccta ctttgcaaaa tgttgttggt 180
 ccaagcaagc catatgttcc tcctccaata cagcaacaac aacaacagta gcagcagtca 240
 caacaaagac aacaagcaac gaggtcctc ctcaaccttc cttataagag ttagtgaggc 300
 taatgaccat ccagaatatg caatttttagc aagagacaag atcctccatt catagtttga 360
 cagatcacat ggtgcagatg gctactt 387

<210> 17382
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 17382

tgccatgtcg tcgtcgttct gacctaaacc tcttcttggc ttgtacccaa gcctcaacat 60

tacacgggct accatcaatg cagcactgga tgaacgggggt tacactgggg gagactcgat 120
 gtcgcaacct acccttcagc gggagggcga cgcgagactc acgggtgcat cttccaagga 180
 aggaaaacac gcggagttgc caccaacggtt tattcgagga aaacgtcggg aaaaaccaga 240
 aaaggcgtgg tctacgaact ttaagtgtga aagggtcggg agttgtatct atgcacgggtg 300
 aagggtactag caccacacgc gtacgtcaca aggtacgaca gcctttaatc aagtgtgcaa 360
 atatgacttc aatttggttt atttcccctt tttaggtttt tatgtcttct tatgctt 417

<210> 17383
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 17383
 agcttggtga ttatggggta tccatcacat gtggtactat gtggcggtcg ggtgatgggtg 60
 caagacaatt ctccacatcc acaaatcaca cataaaccga ccatcccctg ttgtccacct 120
 ccaactgagc tcctgtactc ccacgtagcc cttatcctcg ttctctcaa cgccgggtcc 180
 ccatcaatcc tctcaagctt ccacaatatc caagtaattc atcatccaat cgtcatgaac 240
 taacacagcc aagaaaacag ggcagaggca gaaaactctg cccaaaacac aaaccaaaat 300
 cacagctttc cttacttaaa gacccagta acatttcctt cgttccaatt cgttcaccgt 360
 tggatcgact cga 373

<210> 17384
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17384

tggaattgca tttgggcacc tattttgaat ctctatgct gtcctatat acataaaaca 60
 gtccacaat cccattttta caaaatcaca ttacaccccc attggggcat ttcaccgagc 120
 acttggtggg cgcacgtttg gtcataaatt gcaagagaat gggggcaatg tggcaggccc 180
 cattgcttca gcatacaaca taggcctaag gccttctcac acaaatcctc aactcaacaa 240
 aacaagcata aaaacaaccc aaaactgccc cacaatatata agtacgttct cacaatttag 300
 agcaccaaaa gatgaagaaa atacaccaat gggaagctaa aaaactcaag gattgaatac 360

ttactttgttg gagtgaatag aaataccaaa aagaaagaan aatgcaacca aaagtgactt 420
gg 422

<210> 17385
<211> 382
<212> DNA
<213> Glycine max

<400> 17385

tgcttgcata aacattatat aatcatcaat ttgtcaaagc taaattcatt caatcgccaa 60
ataaggcagg caaggaaata aaaatggaat ctaaattcta aatagccctt gctaattaat 120
atactacaat catacgtaac taaacaccat gctacagaaa atagacattt gtctacttcc 180
aaggaagatg aggtgaagat aagagctaag ttgatatttc atatgagaaa tcccaagtat 240
tggtatgatg gcctctcttg catagcattc attttcttc acatattcca gaaattgaaa 300
caaagcattt tcttactgta aattaaaatg tggtcagtct actcaaattg gtgcatacct 360
tcgatcattg gttttgtcag ct 382

<210> 17386
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17386

tcgcctcctg cgggtcccac catctacacc gccatttgc tcctcaaca acccaagaat 60
ggtaactcctg gcctccctct gagtccgcag cgattcctgc aacgccacac cgagttgact 120
catatcgaac caaaaaaaga gttacgaatt gaagaagtga tgagggacgc gagtagtggt 180
aggctagggc cacagagatc tcgtgagctg gaagagcatt taaacagaaa acgacttctt 240
aaacaagaat atatatatat atataaaatt aatgtattta aaaattataa aaaaataaac 300
aattttttta aaaaaatctt ataattatcg atggagaata aagtaatttg ctaaggatca 360
tctattcata atattaagtg ctacattntc atagtttagt aattaatttg aacacgtatc 420
ag 422

<210> 17387

<211> 382
 <212> DNA
 <213> Glycine max
 <400> 17387

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agcttttggc atcatataaa atttatggtg atcaacaatc acatcacact tgcttttcat 60
gggttggtgt gtggtgatca caccattatc tatggggttt ttaactttta ttttagtaat 120
tctactaaaa ttataacatg gtatTTTTTTT agaacttgca ttttagttta tttattatac 180
aggataaata tatatTTTTat aaattaaaaat tcatgattaa taaatacttt taatatataa 240
attatattat aattaaatcc aagataaata aatatatata caaatatata aattatattt 300
taaatcaaca atgaacaatt tagactgtgc atgggtgaag gttattttta attattaata 360
atTTattttta aaaaaattag ag 382
```

<210> 17388
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17388

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ntagcacgat tgtgaaatga aattatgctt atTTtatcat taaaactcaa ttaccatcgt 60
tcatttttat atttccctcc ttttaatcta ccaaaatggg actgtaattt tttatttacc 120
cagtctggga tttgtgcgcg aaaacattag gtttgtgaat atgaatacaa aaattacatt 180
gggatataatc tttaatcgta ttcatatgcc tactaccaac cagctctttc ttggacttgg 240
gcttaattct gatggaacca ttaaggtcaa cgactcattg attctgatga aattaattag 300
gtaaagaata ttagttagga aaatgctaatt attgaaatat taaagatatt tttttatgaa 360
aaaagtatta tcaacatacc cttatcaagt ggTTaacagg tctaaatatg aactgaatg 419
```

<210> 17389
 <211> 379
 <212> DNA
 <213> Glycine max
 <400> 17389

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agtttataaa agtccttctg attcaattta tgcattccta actgtatgcc atgagatgaa 60
gtgcaaagggt tggacctcat gttagtgtgt aattattgat tagtttaaac acttgagctt 120
```


<210> 17392
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 17392

tattgtcggt tgaatatgct tagaccttat gtttttttatt tcgagcgcca cgatatagta 60
 cgggacacaa tcggacatcc gagtaaaaag gtatagtttt ttgaatttcc tcagagcatc 120
 agttttcaat ttcgagtgtc tccatatatt acaggactca atcagacatc cgagttaaaa 180
 gttattgtcg tttgaatatg ctacgagctt ctgttttcaa ttgcgagcgt ctagatatac 240
 taagggacac aatcggtccat ccgagaaaaa agtgaatgtc gtttgaattt gcacagagct 300
 tctgatttca atttcgagcg tgtcaatata ctacgggact cgatcggaca tccgagttaa 360
 gagttattat ggtttgaatt ttctaggacc tactattatc aat 403

<210> 17393
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 17393

tgctgctaca agtttatgta taatctaaat ttagcatatg aagaacctga tttcagtttt 60
 ttctttctccc aaagggtgctt ctggagaaat ttatccaaac aagtatcacc ttgataattt 120
 ggttttaagt gaaaatgtta ctcagttaag tcaaattggg ggggggggatt attatacagg 180
 acaaatatat attttataaa ttaaaattca tgattaataa atacttttaa tatataaatc 240
 atattataat taaatccaag ataaataaat atatatataa acgtatgaat tatattttta 300
 atcaacaatg aacaattcag actgtgcatg gtgtaagggt attcttaatt attaataatc 360
 tatttttaaaa aaatt 375

<210> 17394
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 17394

tttcagcacg ggtttggtgc ctatatattat ctagttctag tgttaaatta cttaaaaaata 60

tttcacaagt gacttgtttg agttttgttg gggtaaacad gttttgaaat gagcttgatt 120
 tgtgtgtatg atgacgttgt atcaacaata tactgattat ttattcctgt atagtaagat 180
 ttgaagttat ttgagaatga gattatccta ttcaaattga tagatattgt atcgaattgt 240
 atgaattgaa tagggaattt taagattcta acaagtcatt tgtcagcttt ttgtgttttt 300
 gttcgtggcg atatgtttcc catgggtatt gtatatgaga aagtgggtga ataattgaat 360
 agattgttaa tttggtcctt aattgataat cgtttggttaa gttgct 406

<210> 17395
 <211> 377
 <212> DNA
 <213> Glycine max
 <400> 17395

atcattatac atagtccgcc tttgcttgac cttctttatg cttaaaaaca gaaacattaa 60
 gcaaaagatc aagaggaatt agtgggttaa aaccataaac aacttctaaa ggagaacaat 120
 tagtgggtgt atgaacaact ctattgtaag caaattcaac atgggggtaaa caagcttccc 180
 aagtttttaa gttattcctc aaaactgtcc taagcaaagt tcccaaagtc ctattaacaa 240
 cttccgtttg cccatcggtt tgtgggtgac aagtgggtga aaataacaat ttagtgccca 300
 acttgcttca caaagtcctc caaaaacgca gatcatgaag cctaggtata ggatgcgtat 360
 acttaatggc gatgtta 377

<210> 17396
 <211> 283
 <212> DNA
 <213> Glycine max
 <400> 17396

aagcaggagg gccacaataa acaaatataa aaagaggcca aacaaatcag gaaaaccgaa 60
 gaaactgaca agccagaaat catgggtcaa ggagagcaac agagcgacag cgaaagcccc 120
 aaaccccaaa acgaagatgg cacagacgga actactgcac gcgaggcgag gaacaacaac 180
 atctgactct gcgtgaggct ccgaaggcag aaatccacca acggggggaca aacgaatccc 240
 tcaagcatca gacaccggaa aagaactcga tactcagcga cag 283

<210> 17397
 <211> 381
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17397

 attccagcag ccaaggaccc ctttgggtctc tttgttagga ctngaaatgg tttgggcaca 60
 tgaattaaca aatataatgg ttgtttttaa tttcataaaa actctagtgc gatttttttaa 120
 tattctgtct ttcacattaa agatctatag ggtctggttt gataaacttc ttcactccat 180
 aataaatgtt aaaaggataa atttcttcta ggagaaaaaa ttacaagaaa aaaaatgaaa 240
 taagttgttc aatcgtttta atgttttatt gatattgtaa aatgacaatc aaaatggaac 300
 aaaagaattt actaaaacgt caaacaaaac aagacggagg agggagtaca tataaaatgg 360
 aatattacat gatgcagaat g 381

<210> 17398
 <211> 342
 <212> DNA
 <213> Glycine max

 <400> 17398

 tcaggatttc aaaagactgc tctaacagcc tactggatatg acttatcacc atatattgca 60
 tgatcgatca tgttttgatt ttgactccc ttccatgtga agatgccttt gctattgaag 120
 gaggagaagc tacagagctt aagttctcac tgcttatgag aaactgctga ggggcaccgg 180
 aatatttact tgaaagctgc caagaattac ttggaaaaga caccaaata ga atcttatgta 240
 gaattcttat gacttctgca ggtgctatct aattttcaga tgatgcattt gtgacgatgc 300
 tagcacgcat gatcgcaatg ttggttctat tgatatagag at 342

<210> 17399
 <211> 298
 <212> DNA
 <213> Glycine max

 <400> 17399

 tcaagctgga cagtgtaggt gacatagcga acaacatcat cttttagggtt catttttttg 60
 cagcgaaggc gcggggaggt caatcatgca cacgcgtgaa cgacgtggtg tcgcacgcct 120

gactttattc ctctcgcaga gtgacttggg atggtttgca cccacctatt gttgaagcat 180
 actcctcaca ccctatccat gccaccatga ctctgggaag cataacctca ttattaatga 240
 cattatgacc gtggattgga gggcctacgt ccttagcttg aacaacatca tactattg 298

<210> 17400
 <211> 532
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17400

cacccaacg ccancacaca gaacgagaca accgaatgac tagcgcacga aacacatcnn 60
 nnnnnnnnna aggcagagnn gaatgatgcg tcgctagacn ccgcgannna nacnagnncc 120
 cggggagncg anagacgaga cccgaccgca cgcaatcatt ttgagcgaga cgagggcagc 180
 acagggagag aggagaccac cngccaccac aacaagggcg gccacaaaaa ccgcaaagag 240
 aacaaggcaa aaacgaacgg ggacgagaaa gacagggagg acacccaaaa cagaaggacc 300
 aacaaggaaa gcacgaccac cagcctgaaa tgccagccca ccagaagaga ccaaaaccag 360
 agacagccca agggagaccg tagatganga acaagccgag caaacataca gagacgcgcc 420
 caaaacggta gcactaggac gccagtcaag aaggcacggc acaaccaaga ctgggaaaac 480
 tcgagccacc gaaaccgcac aactcgcaaa aacaaggcag agcaggccga cg 532

<210> 17401
 <211> 295
 <212> DNA
 <213> Glycine max

<400> 17401

tttctttcta tattatgcct atgaagaaat tgagtgtggt tgctgagttg tggccggact 60
 gtggaattac aataagtact tacgcgctcc tttatttttt tacttcagac aattgagcat 120
 aagaaaacct accttgtaag tatccatgcc ttaagcaaca tacacactac tttcgatttc 180
 taggttgaaa tacaggctgc tgatagcttt ggcacactgt cttcttatct ccaccgtgtc 240
 ttgtatactc tgaatttttc actgaaatgt taactggata aaatagacat ctgga 295

<210> 17402
 <211> 606

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17402

cgannaacgc nggggttttn naactagaat accgtgagnt acagattccn gtctagcact 60
antaccanag tagctncaca gntcattata ntagcatgca aagacgtnta tgggtgggtag 120
ccntagaggg ggatacgagg acngattgct cncactngta tgattactca taggaanaga 180
agagaccgtg tcgagtgcac cgnagacact tgatgtcgtc gatcgtatag tagtctcttc 240
gacanagccg tgatcttata gtatgctcta ctctcctcat atancatgta tgctagagac 300
agaatgctat gcgagaatca ttatgtcgat gatgagcata gcggtgtgat attacttgag 360
acttgaaact gctgtcaata tgtacaaagc tgттаacgat ggtggagtac tgtactaaat 420
aataatatag ttctagtaag atatgggtgt ttgcgtgtgt cagtaactgt accgactctc 480
acaagtatgg taacaccgtt cgaccgacta ttcggtcttc agagaatatg ctcacctaga 540
ccatgtacat tccgatatgcg agcacttata cggattaaaa taaggcaaat agtgagttct 600
gtactt 606

<210> 17403
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17403

ttatcttctt aangaagttt tcttaagaaa gcttctcaag gaagctacct agtctataaa 60
tagaagcatg tgtaacactt gttgtaactt tgatgaatga gagtcttggt agacatactt 120
caaagttcca cttctctacc tctttttattc cttcaatttc gtgctcccc cttctctctt 180
ctctccctct ttcttttctt ccattgaagc atcctctcca agcttcttat ccaaggctca 240
tcttggtggt gaagctcctt cttccatggc ttattcccta gtggatgggt cctcctctca 300
cctcttctcc tttgtcttcc gctgcatctc catggtggaa aatcaccatt aaaggacctc 360
attgaagctc aaagat 376

<210> 17404
<211> 384

<212> DNA
<213> Glycine max

<400> 17404

attcttggaa ggtagtcata cctcacaaaa tatatatata tatatatata tatatatata 60
tatatatata tatatatata tatatatata tatatatata tatatatata tgtttaggga 120
gagagatacc ttggatatgc gtgtgtgtag caaaaaaat ctcacaaaat atatatatgt 180
gtgttttaggt agcgagacac cgtggatatg cgtgtatata gcaaaaatat ctcacaaaac 240
atatatacgt gtgtgtgggt agcgagatac gtgagacaca catgtatata gcaaaatacc 300
tcacaaagat atacgtgtgt gtaggtagaa aaacgcctcg tgaaaaaaaa gagagcgcgc 360
tagaagagaa ttagaagaaa agt 384

<210> 17405
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17405

ctaagcttaa caagttagcc tccatcctca ttgtatttta tcctgaacgg accattcaat 60
ccctggagga ccgtttgagg tcatgtgtct tatagcaaaa ggggagagct ttctttcatt 120
gatagagttc acttacaaca acagttatca ctctaccata ggcatggctc cctatgaagc 180
tctgtatggt aaaaggtgta ggacacctct atgttggtta aagccctgag aagacctcac 240
cttaggactt gaagtgttac aacaaaccac cganaaagtc aagttgatcc atgaaaggat 300
gaggactgct cagagtatgt agataagtta tcacgattag aggatgaaag acttggaatt 360
cgaggatggc gatcatgtat tctagaaagt cactctgtgg act 403

<210> 17406
<211> 383
<212> DNA
<213> Glycine max

<400> 17406

ttaatcttga aagttacttt caagttaaaa tttcttaggt agtgtgttct tagatcttga 60
gatttgaaat aaagaagaaa aaggaggaat agatggggtt tgctcttgaa actagctttt 120

taaaaggata ttttttcaaa gtgttctttt tttttttgaa gggccacaaa atattatata 180
 tatataattht caaagaaaca tagcagcacc agaggtactg ctggtgggtg atacatctga 240
 gaacatagga aaataaaaaag cccaaaaaac aaaactgaga aactcagata cacctttccc 300
 atacataaca gaagaaattc agttagccaa agtatcgac tatattggac gaccagtagt 360
 ttaaggagtc actatagtgc ctg 383

<210> 17407
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17407

ctggtattgg cacagtcgag aaaatttaaa tctttcgtct ctacccttg tctctcacta 60
 tccctttgtg tgtgagatat taagatctaa gggagcataa gatgcaagg tgaatgtgat 120
 tatactattc ttatgatcca tcataaagag aaaagtttat tccatatgaa gtgaaaagtt 180
 gaatatccca tgaaacccca tataaactgc atccaaatga attgcagaaa ggaaatcagt 240
 atgcaaacaa aattccccaa aagcactgg tctattatca gtaataaaca caagtaaaac 300
 caactttcta aaatcaaaac ttgaaagata aaccaaaatc ccaattgcaa gatagcgcct 360
 ataaacacna cctcaaagtc catagataaa tgccatagacc ttgccacat 409

<210> 17408
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 17408

ttcttaaaac cccttggtca ttactaaaca agttgaaatt aatcacaaac acaagcaagg 60
 tatectaact acacacaaga gataagaatg aaaaatagaa aagggaaga aaaagctggg 120
 ttgcctccca gtaagcgctc ttttaacatc aatagcttga cgcattatcc tggtatccag 180
 gataaaaaaa agttcctact tcaaggacct tcttctcagg tctcctttcc tccatcacat 240
 gcactttaag acagacattt tggcttgggt gatctttgtc ctcatggaac aattcaaagc 300
 tgatcttcta tgccatcta cagcatcttc tttcctatgt ctaccacaca gcttgagta 360
 gacatgaatg ggtggccaag aatg 384

<210> 17409
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 17409

gacctataaa actaagctat gctgcaacat tataatagac cccctcagct tctaaaccaa 60
 caacagcaga ataattatga tctttcaagc aacacataca atccagcttg gagaaatcat 120
 ccaaattctga gatggacaag tcctccacaa caacaacagc atgttccttc ttttcagaat 180
 gctattgggtc caagcaagct gtatgttctt cctccaatac aacaacaaca gtcacaacaa 240
 agacaacaag caactgaggc tcctcctcaa ccttccatag aagagttagt gaggcaaatg 300
 actatccaga acatgcaatt ttagcaagag acaagagcct ccattcagag tttgacaaat 360
 caaatgggggt agatggctac tcagatgaac caagctcagt cccaaaattc taaaaaattg 420
 ccttcacaaa c 431

<210> 17410
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 17410

ttcttcacga tctcacacgt cgaactacat gtatccttca ttggaagaac taagagggga 60
 catgcaaaat aaataactct gacactcaaa taagtacatg aatgagttga gtatgaaatt 120
 gaaaaggggtg aaataagatc tgatctttat aacgtgagat aggagtttcg agtccttgat 180
 tgtaagagag ttattacagt gatgtaacaa ctctagataa ttcctaactt gtaaataata 240
 tatagtagaa aaatcatagc ttgtaaataa tagttaatag ataattcatc acttatagat 300
 tatccaatgg attatagata atccatttat tatagataat tcattactag tagataagta 360
 agtacctgta acttgataaa 380

<210> 17411
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 17411
 tatgaaacct aaagaaaaca agaaataata tgtcttaata ttacaatnga tatgattttt 60
 gaaaagaaaa tattataaaa aaacaaaact aaccatgttg gatggcatgt gcttaaactt 120
 gtaataacag tagtaaaaac aatcttcttt aaaagacct tagacctcaa aattcgaagt 180
 ggaacgtgct gcatcagtgg atgcacactg attattatat ctggctgata tttcattagg 240
 ccttttagcaa cctcgtctga aaaagagaaa aagatatattt aactgtgaca tttgatgtta 300
 catcatattt gagaagagat acacatgcac aagaaagtat ttttctgaaa catggaatgc 360
 agaaaaagtc aataagtttt gtctaattt aacacaatgc acaacataca ttg 413

<210> 17412
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 17412
 atcttatatc taatctggct aggaaccgtt gacagtgatg tggaagtcct ccttttacgg 60
 acctagttat atatatgctt caattcatac tttcaaagtc aaaacagtaa cattaagaa 120
 tacattctcc ttaagcccag ttgcacaaa taataggtag acaggcaaaa agtttcttaa 180
 attacacaat atatagcagt tttggccata tgtatctttt atctctatac tccataaata 240
 aaggcagcc aatagttaat ataacaaaga gatcaaaaat taaaatctaa caactaagag 300
 gtaaataagt gaggtttagt tatgaagtg aaattagttc acgccaaaat tctaataatt 360
 agaaaaacaa gacaagg 377

<210> 17413
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 17413
 tagtgacata agccaaacac atggtattgg ctaatgtccc tatgaaagcc catccatgtc 60
 ccaggttcca agcaaacaca gccattcccc accaccacac ctgctctcca aagtaatttg 120
 gatgccgaga ataataccac aaccctttgt caagaatagg gacctccttg ttctttctac 180
 tcacaaagtt gtaaagctga gtatcagcaa tgtatgccgt gacaatgcca gatacacaca 240

caactatggc taccaagtcc cacatgctca gaggctgggt caccgagtgg atgacataga 300
acggaagaga caatccaatc agaaacacct gcaaggttgt cttgatgtaa attaaaagta 360
aaagcaaggg aaaatgatga ctaagagtaa ccttaattac ctgctg 406

<210> 17414
<211> 381
<212> DNA
<213> Glycine max

<400> 17414

tgtttgcaag cttctgaaat cttggaattt aacataggag ctttttgatt acaaatttac 60
aatctcgagg aatttactga ggtgaggatg atatatgcag tacgattcac ttgcaaaata 120
atctagatga aaacaaaaca tattggtcct aaaaactaaa ccatattgat tttctgttgt 180
gaatgcaatc aattgtttta atatcattct tcttaatttt tttttatctt aaaattgcat 240
ggttactagt ctatTTTTTTT gaaaggctaa ggaaaatggg tactagtcta ttttaagatta 300
ggagtttagg actgtcatat tttctagaat aacattttgc aattgctaaa ttcctgaag 360
caaataggt gtttgaactt t 381

<210> 17415
<211> 421
<212> DNA
<213> Glycine max

<400> 17415

gctatcagga cctatgaaac tcagctgccc ccactaccag gcaagttagg tttttttctc 60
cagaagcaac cgccttctgg aggaagaatc tggaaagccc aagtgggctt gattgctatt 120
tgtaccccc tttttactaa atgtaccctt ctttaccttt tgtggtgatt ctttttccgt 180
aacgttacga aactttatga attttgtaac gatacttatt ttctttccgt aaggttacga 240
atccttacgg atcatgtatt gactcttttt tagctttcga agaagttacg gaaactcacg 300
gattgcgcaa caacacctcc ttttggtttt cgccacatta cagaatttca cggatcccgt 360
aacctggtt ctttttgatt tccggcgcgt ctcacgactt acatattgtg caacaaaagg 420
g 421

<210> 17416

<211> 383
 <212> DNA
 <213> Glycine max

<400> 17416

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atcttatctt gacatactta gtcacacaag tgtatTTTTT aaaaaccttt gtgaaaatat 60
tattttatca atcaccggac aacaatgttt ttgttctcat caaaactact ttttattcat 120
tgaacgacat tgttggtaac ttggtttgtg cacatctgct tgtgaaaaag ttttcatttt 180
tatctaacc ctttctagtg tgatatctat tatttcataa agcctctatc aagatccttg 240
aattttaagt tggacagctt gctaataatt tggctgaaag gattaccaa aacatttcaa 300
ccttaactca agaaatccaa aaagtggtaa ctctaagggtg gtgggagatc cttgaatctc 360
ctatcacacg tcaaactaat gac 383
```

<210> 17417
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17417

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cacaaattaa aatctatgac cttagagact ttcggttggt tttggagact ngaatcacac 60
acgtgtcatc ttcatgttgg tgaatgcaca atcaccttgg aagatgttgc tcttcaactg 120
ggtttacgcg ttgatggaaa atcaattact agcccaacat attatgatta ggaacatatg 180
tgcacataat atataggtgt tgttcccccc atagaatgca ttaatgggat caacacttaa 240
actaaaatgg ttgaaagaaa acatgtttac tttccaagaa gaaccacac cacaataatg 300
agaaacccat tattgagcat atattttatg atcgatcggt aggggtgtcga tgcttgacaa 360
gtcagcgaat agaattcacc taatgtatct acctctgtta gcagatcttg a 411
```

<210> 17418
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17418

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agctttttcc agggccaaat tctcgtgcat gcagaggctt cttcaagaaa aactccaaac 60
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tccctttgca aatctgattt caggcttaaa taggtggcct tgttcgtgct cgtgcgcata 120
 gcgcacgtat ggaccgctta gtgcacgtta gtaatTTTTg gcttagcgca cttctctcgc 180
 ttagcggatg agctaaagca gcgcgcttga tgacctggag cgatgcgctc agctaacctg 240
 atagctcatc ttcttctgga ttcttctctc cgcttagcca ctgagtgtca cgcttagcga 300
 atgctcacta agccagcata ttggcttagc gagaagggtga naacaacact tttgccaatt 360
 tgccctaatta acctaaaatt g 381

<210> 17419
 <211> 419
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17419

agcttaaatg ttggttntgt atatcgattc ttccataatt acacgtcttt gttgtaaatn 60
 ntgatacaga taccatgata cttgatattt taagtaaatt aacatttgga ttcaatcatg 120
 catgtgtatt ttgttgtttg aaagttaacg attgcttcga atagagaggc aaaaattaaa 180
 ttaatttggt aatttatggt atattatggt taatttgatt tgttgagggtg taaagtttaa 240
 ctaaaatgat atttaaggat ggtaaagtgc cttttaacgt gcgattcgca ttcatatttt 300
 taatcttaac atctataggc aaaaattaaa ttaatttggt ccctattact atcctaaggc 360
 ctaaatatgc tgctcaccca gaacaccggg tcccttgctt tcaagtttca agagtcaag 419

<210> 17420
 <211> 356
 <212> DNA
 <213> Glycine max

 <400> 17420

tgcttttatc ctaagagaag ggtctttgat attgcattgc tatgactttc taataaactt 60
 ggtgaatgac caaaatgccc ctgttctttg ttactgaaaa gagtcaatgc aatgaaagca 120
 gcgcagtat gctaggggtg ttgtcgacat gaaaagtcaa acctcgccga ggcactcaat 180
 tggctttgat ggaacagcaa gcaacgaggg gcatgcggca ttgaaataat gctgctatct 240
 aattaatcaa atagaattaa aataataaac atgttgaaag ggatcatata ctacattact 300
 agttattaag gttatacaca tacacacctc cataaggtag gttaagtaga tccgta 356

<210> 17421
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 17421

tacatcaata ggaataataa taaaaaagaa ggcataatatt ttctgccttc tatagctcta 60
 cgattgtata attggcccct caaaaaatta gttacacatt tatcttataa aatttaataa 120
 ttttgacctt ttgttatatt gccatcaaat ttttaacata aaggactaat gtgatattta 180
 agtgataaaa taacacgaat acattaatat tataaatgac atgatatttt aaatatagac 240
 taatatgaca tggattgttc aaattgtgat cattgttact acgtcactaa actattagtg 300
 caagtagcat atatattaga ttactagttt attttttata tcgcgtcaat gctatattat 360
 tacttaaata tcatgtcaat aattgttaaa aatcactaac gtaaaaaaat gtgg 414

<210> 17422
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 17422

ttgtatgatt atgggggtacc catcacatgt ggtactaggt ggcggtcggg cgatgatgca 60
 caacaagctt tccacatcca caatgcgcgc ataaaccac catccccttt tgcccacctc 120
 caactgagct cacgtactcc cacgtagccc atatcctcgt ttctctcaac accgggtacc 180
 catcaatcct cccaagcttc cacaacatcc aagcaaaaca acattcaaac agcacaagct 240
 atcacagcca agcaaaacag agcaaaggca gaaaactctg ctcaacacat caacccaaat 300
 cacagctttt ctcaactaaa gaccacagta acaattcctt cgatccaatt cgttaaccgt 360
 tggatcgact ccaaaatttt actgg 385

<210> 17423
 <211> 313
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17423

tgattagaga aattggtgcg gcagcttcca tgtttatggt ttcattctaa cantgncgag 60
 ggccaccttt tcgtggcttt ggggtactcaa tttcaacttn cattgaaatg taatgtaatt 120
 ggatctatct tgatgtaatt acaacataaa aatgaatgtc atggattcaa gtgacgctcg 180
 gtcaagaaat aaaagttgca ttcagtttac taaagagggt tccctttatg agtatTTaag 240
 ttataacata agcacgaaat ggaggatatt tagagtgtac gctacaaatt tatcgatgac 300
 actacaactt atg 313

<210> 17424
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 17424
 ttcttccatc aatcatgaaa gtagttgctt gtaacaacaa ttacaaaaag attgatcata 60
 tcgggttctt tattctttat ttgtctatTT agtaggattt ctttgtaatt aataaattat 120
 cctttttaat ttatttTgtct accaacattg aaatccttca ttcatggTta cactttgttt 180
 agagattaag aaagagttta gatttagaaa tcttttTgtgc aaaaagttaa actattttta 240
 taaagtgttc attcttcatt tgttttgacc tcttaattat tttttatcac tgcttaatat 300
 tagtttgggt agcaatgacc atgttggaat agaccaogac tatggatccg gggTggaccc 360
 acattcctaa gccttagcct act 383

<210> 17425
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 17425
 aaactcaagc taaaaaaggc atgcgaagtg ggtggaattc ctagtgcaat tcctcttagt 60
 catcaaacat aggaagggaa aaggtaatat tgtatccagt gctctttctc ggcgtgatgc 120
 atcactttct atgcttgaaa caaatggat tggcttagaa tgtttgaaaa gcatgtctga 180
 aaatgatgaa actattggag aaatttgtaa aaattgtgaa aaatcctcac ataatggttt 240
 ctgtaaacat gatcgcttac ttgtcaaaga caacaaattg agtgtgcctt aatgatatag 300
 tagaaatacg ctcgtttgtg aagcacatga tagatgttta atggggcatc ttgggggtcca 360

aaggactc

368

<210> 17426
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17426

atcttcttaa naggacttga ctcgatttgc ctaattctct ccctactcac acccaacatc 60
tcccctatct cttgcagggt cttcgtcctt ccatcatcca taccaaactc ccatcttacc 120
acctgcctct ctcttgcatt gagactgtcc agagcctctt ctaggtcctt cttcatgaac 180
tgcttaagga gctgttcttc agctgtttcg gcatcaggat cagaaattac ttcttggtaa 240
aaaacacaca agtatcagca aaatgaacat caaatgaaag caaagagttt tttttttttt 300
tttctggagc aaaaatttga acgagattag gacagactga gggtttaaga ttctgggtga 360
tcccaatctt tt 372

<210> 17427
<211> 413
<212> DNA
<213> Glycine max

<400> 17427

accagctta cataaaacat aaaagagatc gagtttgtat gttgacctcc caacatgatt 60
caacgaatga tttgcatatt gatcctctca aagacttata atttattatt aatccttctc 120
tgccaagacc tggttagtac gaactttggg cttccttgcc aatatgagta tgttctcttc 180
aaagacttat gatttattaa ttaataactt gttttattaa aaatgattat agttataaaa 240
ctataaacia ttgtatagaa aagggttattc taaagactta attcgggtccc tgattataaa 300
tataacttgg ttttattaaa aatgagtttc tcagttatta aaaaatgtaa gtaagttatt 360
caattgaatc cctcaatgat tgaaaaattg aaaaagtagt tggtttatta ttt 413

<210> 17428
<211> 381
<212> DNA
<213> Glycine max

<400> 17428

ttcttgtgta aagaattaat gtcaatttct cttcaatttt aggcaaaaag gagttatttt 60
 gaagaagtgc taaagttgac gtctcactaa gcgagctcaa tgcgcttagc gagtgtcatc 120
 cgcaaagaga ggcattcaacg cgcattagctg ataggaggaa tcaagaaggg aatctgtcat 180
 gctggcatgc actcagggcg tcattagctt gctccgtgag tcgtttgtca ccttccaggc 240
 ttagcgcgag tttcgcgctg agcgattatt cacttactcg caccaagcgc gagaatggca 300
 ttaagtgtga cgtcgaggtc agtgagccct tttttatgcc tgacttgtgg agaataag 360
 gggggtgaag agagtgggtga c 381

<210> 17429
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17429

ntccctctta gacaacctcc acattttctc ttttgttaaa aggcacttgc tagcattgcc 60
 acacctcttg ggcttgagtt tattcctcaa gtaaagaagt tgttgatga gggtttggtt 120
 cgcaagagct taaatccttg tgcttttttg gtgccccaaa tacgtattat taggcaccaa 180
 gtccttaaaa tagtggtat gatgaatgtt ttgagtgggtg caacactctt ttgtaaaatc 240
 actcatgcac ccaacatctt catgatttgt gtacataagg acccattagg taggtttgtt 300
 cttatttttg gttttaatac aaacttaagt gctcatatgg gacaccttat gtttgtcata 360
 tttttttgta ggaataatca acacanaaat atagaaaaag gtatgcttcc ttg 413

<210> 17430
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17430

tattcttcat taagaggctt cctctagaag cttcctcgtg gcttctttga gaagttttct 60
 caagaggctt ctttgagaag ctacatcctt atctatccat ccctctatta actaaattaa 120
 cttccttaaa aataattacg gatgaaaata acgcaacaaa taatcaaaca tcaaacataa 180
 ttactaataa tatatagata tatatatcag ggtgttacac atcatatatt gagacgctcg 240

aaattgaaca atggaagctc tcgagaaatt aaaattgtca taaattttca cacggatgct 300
cgatcaggca catcagatat cgagacgctc gaaattaaaa aaacggatct cgagaaattc 360
aaatgggtcat aattntcaca cgga 384

<210> 17431
<211> 412
<212> DNA
<213> Glycine max

<400> 17431

tcaccggatg atgccgatcg aacatttctt aatctatctt ttccaattgt tattcagggga 60
ttgaacagaa taaacaatgg ccagtgtcgg tcgttatatg gccccgactg atatctttca 120
gccgacattg cgcaatttct tttaaaaacg ctggccgata atgttctttt atttacggta 180
gaggaagttt tttgttttgg tgttgccctaa aaaattttaca acgtaggacg gctagggttt 240
tccgtgcgag ctcaaccgag ggttcgttcc gaccgacact ggcatgttgt tcttctcatt 300
tatgaggccc ataaaacggt ggcctacccc ggcaaaaaca aaaaaaaca ttattcacgg 360
aaattgatcg agaaaattga tagctaactg ctgcatggag agttgaccga tc 412

<210> 17432
<211> 380
<212> DNA
<213> Glycine max

<400> 17432

tattttttat tatccggaat catatcatat tgtttcctat aattctaattg tatatgggca 60
tggctacgcc atggtttggg ctgctgaag catatcatgac acggaagata tacaacgaaa 120
aatgaaaaa gatgcacatg aagaacacga gggagagaaa aactccaaca tgaagatttc 180
tactatcaaa acgggtttcg aggataaaac atcaagtggg tgtttctcat gggctctcaa 240
acagcaacac aagaaaaatt ctgaatttc agattacaac gaaaccctat ctgctgccaa 300
ttcatgattg acgatgttgg gcttttatac atcttaagta ctaattaatg tttctttaca 360
tgtgtcatct gtactagaga 380

<210> 17433
<211> 352

<212> DNA
<213> Glycine max

<400> 17433

acagaaaggc actggctggt tttgtcagac acagtgttac cagattcgct atcacttatt 60
taactgtgca caagattgct tcagctaaag gccaatctta gaatgatgtt tacttcggaa 120
gaatggtaga agactaaggc agctaaagag cccaaagggg aaaagtaacg gatgtgggtc 180
ttatgccatc attttggaa gatactaggt aactataac ggcctaacc tttcgtaagt 240
gagttgaggt ttgtggataa agaataaaac aaacttctcg aggagtttca cctctgaagc 300
attggaggaa aatataagga tatctctgca atcattgata aacgatggga tt 352

<210> 17434
<211> 412
<212> DNA
<213> Glycine max

<400> 17434

cagctccacc cgggatcctt agagtcacct gcggcaatct tcttttcgat tcattctatg 60
cacccgtagt ggtccacatt gtgtttcgtg cattttttatt ctcgttttgc ttacttttta 120
taccacctgt tgacgtgctt aagccatttt acttaagtca tttctcgctt aacttaaaaa 180
taaaataaat ttccaccgaa cgtttgaatt gtattatcca ttaacttcgg ttaaaataaa 240
ttccgaccgt tcggtcgtgc cgtaaccacg ttggaaatca aaaagaggta aaaaataata 300
taataatcaa aaagacatct tttagtaaaa taaagcggaa aatcaatcgg acgttttctc 360
tttgggattt ctcatcttta atcgaattga ttaataacta aagtgaaact aa 412

<210> 17435
<211> 415
<212> DNA
<213> Glycine max

<400> 17435

tcttatccaa ggctcatctt ggtggatgatg ctcttcttc caaggcttat tccctagtg 60
atggcgccgc ctcttacctc ttctcctttg tcttcgctg catctccatg gtggaaaatc 120
accattaaag gacctcattg aagatcaaag atccagcctc catagaagct ccacaagcaa 180
gcttccatca aagaccgttg tcctttacca cctctagcat tgttgtgggc taggaattgt 240

catcctcagg aaaagcagtg gctaacttca tatattagta gaatgtatta gtacaaaaac 300
 ttgatgatgt tgaaaagaga ctatgttgat ataactaaaa ctgaacatgt agcttctaata 360
 gactttgtaa tgtcctacat taatatataa ttgttaggct gcatattcac ataata 415

<210> 17436
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 17436

ttctttcaca tggatgtccg attcggggac ataatatatc gagacgctcg aaatcgaaca 60
 acggaagctc tcgataaatt cgaatgggtca taacatttca ctcggatgtc cgattcgggg 120
 acataatata tcgagacact cgaaattgaa caacggaagc tctcatgata ttcgaatgct 180
 cataacattt cacacggatg tccgattcgg ggacataact catctagacg ctcgaaattg 240
 aacaacggaa gctctcgaga aattcgaatg gtcataagat ttcacacgaa tgttcgattc 300
 ggggacataa tatatcgata cgctcgaaat tgaacaaccg aagctctcta gaaattcgaa 360
 tggtcataac a 371

<210> 17437
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17437

tcagctntgt ccccaaagct tcatgtagac tcgtttttaa tcgcgaagtg aacctcggat 60
 ccctgtcaga tacaatacta caaggaattc catgcaacct tactacttcc ttgatgtaca 120
 actacactag ctttgccatt ctatacttca tccgaatgaa atgttatgac cattcgaata 180
 tctcgagagc ttccgttgct cgacttctag cgtctcgata tattatgtcc ctgaatcgaa 240
 catccgagtg aaatgttatg actattcgaa tttctcgaga gcttccgggtg ttcaatatca 300
 agcggctaga tgagttatgt ccccgaaatc aacatctgtg tgaaaagata tgaccatt 358

<210> 17438
 <211> 375
 <212> DNA

<213> Glycine max

<400> 17438

tgcttgacgc gcattttctga tgaactttac cagaaattgc ggtaggaggt cccaggactg 60
ggaagctccc agtgaagggt tctgcctttc ttacagctga aggatcatcc agatcaagcc 120
ttgctataag ttcaccagcc tgcaaaaggt gatacaattt tattatcttt ttcaatttca 180
acaattgtac ttcctatgtg gaatagaatg ctatatacct gcattgcttg accttcagac 240
atthttgaaat gaataatccc agaagcaggg gaaagaagag gcatgcacat tttcatgacc 300
tcaacttcag catacggtgt gtcagcatca acatgactgt catctgcaac caaatatctc 360
agaagcttgc atgggt 375

<210> 17439

<211> 409

<212> DNA

<213> Glycine max

<400> 17439

ttgaagtgaaggatgtgac tcttcacatt tgaatttgaa tttcagcgtt caagggcact 60
ggtaatcgat taccaaaaca ttgtaatcga ttacagcttt ttgaaaataa ttggaacgtt 120
gtaaattcag ttgaaaact ttttcaaact catttttgcta ctggtaatcg attacaacaa 180
tctggtaatc gattaccaga gagtaaaaat tctttggtaa aggggtttttt caaaaactca 240
tgtgctattc aaagtthttga aaaactthttt aataacttatt ttgattgagt cttctcttta 300
ttcttgaaatc ttgatcttga tttttgagat cttgaacctt gaatcttgat tcttgtctct 360
agactthttt cttgagttt gaattgttct tgattthttat cttgaactc 409

<210> 17440

<211> 381

<212> DNA

<213> Glycine max

<400> 17440

ttgtaagtta tatattcaat atatthttata tgthttattt atgtacatgt ttatathttg 60
ataaatgaat aatthttaggt agtataagtc aatataattg atatctthtta tttatgtaca 120
tgthttatatt ttgataaatg aataathttta ggtagtataa gataataatt ttgtataggg 180

ctcttttgtat tgttaatggt atatatgcta gattatatatt tgataaataa atagtttttag 240
 gtagtataag attatagttt gaattgttaa tgttatatgg tagattagat ttaggtttat 300
 atgataaatt aagaatactt ttacatactc taagttatta attttatatg gtagattagg 360
 aatattttta attttgatat g 381

<210> 17441
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17441

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 caagagcaat tgatggagct gaggtagaag ctgaagcaca gttgatgatt ggaatgatta 120
 tctgcctaatt gtcaaagtca tcagagacac acacccacat ctntaattgg aaaagttcat 180
 caatcctctt atcattgaac accaactttg caagtgtagt cttcccatg cctccaagac 240
 ccactatggg aataacacac acacttttat ctccatcacc atcccatga gggtagaggtt 300
 gcatcaaaag cttgataatt tcttcctat cattatccct tccaatcact gctgaagcat 360
 caatatgtga ataagtcatt tctcttcttt gcacaagtct gtgggtcaaca gaaatcctc 419

<210> 17442
 <211> 340
 <212> DNA
 <213> Glycine max
 <400> 17442

atctttgatc attaatcctg actcgccata agccttgatc catggcgaaa atgccacttc 60
 ttatcctcgg aaccctacaa aataacgaga tggagggaga ccactctact gacaatggag 120
 gtggaatact cacaatccaa ggagatgaga ccctatcct ttggtggtgc agagcttctc 180
 gatgagagcc atgtttctcc gtcggccaat ggaactatga gggagagagt gttacctttg 240
 aggactgcgc ctaggccaat aaaccacact agatgtgctg ataggctgtt ggactatact 300
 atatctcacc gggactgatg tggagcaaat gaaccaaaaca 340

<210> 17443
 <211> 375

<212> DNA
 <213> Glycine max

<400> 17443

tcgtcagcca ctgtgcagcg cagcgataaa atgctttacg ctgtcgaaca tccaacctaa 60
 aagcgagagc cggatgagat gcctcggagg ttcaacactt gaggaaaagc gtgacggact 120
 gtgtctggac taaagcagac accccatgag caagcttctg ctattcagtc gggcgatatg 180
 tccggggaga cgctgagcg tgcctatact gtacgactct gatgaggaca ctcaaagtga 240
 agacaatgga gccttgaagt tgctcaaggc tcaaacggat ccctatggat ggtttggcat 300
 attacgggac tcaaggctac gttcgatctg cagcagcataa gagatataat gcgctatgac 360
 caacagcatg cacca 375

<210> 17444
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 17444

tgtcttatga tgatgaatca agttgattca agtagttttg atgataacaa agatgatgac 60
 aaaaagccca agagaatgat ttcaagattg agtcaacaag tttcaagaat caagagaagt 120
 ttgattttta gattcaagag aagatgaatt caagattcaa gagaagaaat caagaagact 180
 tcacaaggga agtattgaaa agatttttca aaaaacaaac atagcacagt tttgtttttc 240
 aaaagagttt ttctcaaaat tttctaagtt accagagttt ttactctcta gtaatcaatt 300
 accagttttc tgtaatcgat taccagtggc aaagtttgat ttcaaaagct ttcaactaaa 360
 tttgcaacgt tccaattgat ttcaaa 386

<210> 17445
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 17445

tgtaaaagtc cttctgattc tatttatgca tttcttactt tatggcttga gatgaagttc 60
 aaagattgga cctcttgcta gtttttattg atgaatagct taaacacttg tgcttgaatg 120
 aaacaaaagt tttgagactg tggtttaagc tgctttcctt gatatatgtc ttatgectaa 180

cttcatctaa ttgtacaggt tacatTTTTat tcttctcttt gaacaactgc atgctttgtg 240
aaagacaagt gatgagggca ttttggttca tctttttatc atgcaatcaa tcaaaactgt 300
aaatttgggg gagttcttag tcgatgaata cgactaactt ttgtgtataa aacctgtgta 360
aattgtatca aaatcctcca atttatgggt atttttagt gttgtaatta ctt 413

<210> 17446
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17446

ttcttttccc tatacatctc ttttataaga cttaatatag actacaattt attacttttg 60
gttcaacgtt cgtttgagag ctttccaata aaataacaaa cacacactta atcacaataa 120
acccaaaaac cttgaatgca ggaaattaag actaaaagta tcatcaaggt caaccgagga 180
tttccaagtt gttttgcttg accaaaagat acactttcaa gacaaaaaga acatttttaa 240
attaatgaaa ttcaaataagg atgttttttt taaggggagaa atcaaaactcc gatattaaaa 300
aatttataat aactcacttg ttacttaaca aattgagtta aatctcttta atatattntt 360
taaaaaaaaa actaaaacta aaaccg 386

<210> 17447
<211> 422
<212> DNA
<213> Glycine max

<400> 17447

ttcaactgaa ttacaacgt tccaatcaat ttcatattgg tgttattgat tacaatattt 60
tggtaatcga ttaccagtgt gtttgaacgt tgaaattcaa attcaaagt gaagagtcac 120
atcctttcac aaaaatgctt tgtgtaatcg attacaatga tttggtaatc gattaccagt 180
gataagtttt gaataaaaat caaaagatgt aactcttcca atggttttca agtttttcta 240
aaagtgataa ctcttcta atgttttcttg accagacatg aagagtcaat aaaagcaaga 300
ccttaacttg cattttgaat tacatTTTga atacattgat ttcaatcctt tacaaccctt 360
gagtctcttt gaacatcttc ttgaattttc ttcttcttct tcttttgcca aaagctttct 420

aa

422

<210> 17448
 <211> 383
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17448

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 acccgacgaa gacactgaca aaaacttatc tattccttct tggacaaagt atggcaggct 120
 gggggcaagt aaattttctt cccatcagac cttggatgca actgtgatcg tatacccata 180
 tcagctagat cttgacgggt attcaagcca tccttcgtct tgccttgaat gttaaggagc 240
 gtcccaatca cactgtcaca aacatttttc tccacatgga taacatcaat acaatgtcta 300
 acgtcaagat cacactagta tggaagatca acgaaaatgg acctcttctt ccatatgcaa 360
 ctctgactnt tatecttctt ttg 383

<210> 17449
 <211> 417
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17449

tgcctntggt ttagacatga ttgatacatg atttgggtact tgtatgaatt gatttgggca 60
 agattggatg agaggaagtg ggattttcga aatctgcact tatgcagaat tttgctgtca 120
 aaataggtgc agcagaattt tggctttgtg cagaaaaatg cttgtgtgtg gttggctgtg 180
 gaaagtctag tgcagaatga gttctggatg tttgctagta gatcccaacg gtcaaaatgt 240
 aggcttatgc actatagact tccagtaaaa ttttggagtc gatccaacgg ttaacgaatt 300
 ggatcgaagg aattgttact ggggtcttta agtgagaaaa gctgtgattt tggttagtgt 360
 gttgagcaga gtttttctgc ctttgccttg gtttgcttgg ttgtgatagc ttgtgct 417

<210> 17450
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 17450

tttatctttg aacaatatac ttggccttca ttttaattgtc tttgggcttg gcggccacgc 60
tcaacaaagt acttttcgaca cctactgtac gttgatttca ccaatgttgt tatgggaatg 120
ttgcgacaat ccttttaaac cttattgata cattctgaga gggttcgttg catgtggcca 180
tatcgacgtc cttctctatc gtgagtcac gtccattttt cctttgagat gcgatcaatc 240
catgttgcta tggctagact cagttcacga aatttttcta aattttgata aaaaaatgtg 300
cttgcatgga gtgtaggcta cataaaatta gttatgaata aaaattttta gtataaatga 360
aagtaaaata aacgtgacca tca 383

<210> 17451

<211> 381

<212> DNA

<213> Glycine max

<400> 17451

tctataatat ttttgcttga ttctctgcat attcttctac attctaagtt tctcgtactt 60
gaaaccttta acctttgatg ttattttctc cttctccact atgaggggaag gtttctgggtt 120
ccaatttttt ccttaacttc tttgtgtgtg tgggtgtttt ggggtttggac ttacttagat 180
ggaagtttac atgtggggtt ttttataatt atttttaaaa ctttttgaga gaaatgaggg 240
tgggtttaca aagagagtga gtgagagaag attaattaat aataggggaag ttataacttt 300
ctcctttatc tgatgggatt caaataacac ctttttaaac tgggtgttagt gcagtaaaca 360
tccatatatg gtacatgctc c 381

<210> 17452

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17452

tttatcttga atgggtggctt anggagttga ggctgacaag cccaaatttt gggcttttgtg 60
atgaactcgc taagcaagct tacctcgcta agcgagttca tacgttttga tgaatttctg 120
ggtttcagga tgaactcgct aagcgcgcct tgttccgcta agtgatatca tcaaatttgt 180
ttaaatttcg tcattttgta tgaactcgct aagccattgc actacggctt agcgagtctt 240

tgaattttgc ttttatattt ctgggttcgt atgaactcgc taagccgatc atccgtgctt 300
 agcaaacaca cttagatagt tctgaaactt agaggctntt tgcattccct ttgtggctcg 360
 ctaagcccaa atacgtctct 380

<210> 17453
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17453

tgttcttgat tnttctcag ttctttaact agctttgaac aatatacatg tccttcattt 60
 aactgtcttt gggcttggcg gccacgctca acaaagtact ttcgacacct actgtacatt 120
 gattcaccaa tgctgttatg ggaatgttgc gacaatcctt taaaacctta ttgatacatt 180
 ctgagaggtt gggtgccatg tggccatata gatgtccttc tctatcataa gccatcgccc 240
 atttttcctt tgaaatgcga tcaatccatg ttgctatggc tggactcagt tgacgaaatg 300
 tttctaaatt ttgataaaaa aaaaagtgtc tgcaaggagt gtaggctgca taaaattagt 360
 tatgaataac aattctaagt atatatgaaa gttaaataaa tgttaccat 409

<210> 17454
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17454

tattcttcca tcagcagact cacaactgac tagccgaaag tctcaacctg ctctgatacc 60
 actaatgtaa cgacctgact catcgctaca atatcaccat tctaaatcgc gatcatttca 120
 aattttaaat gaaaaatcca ttaattttct tatataaaaa aatgaaagtc atttttgtgt 180
 tgacatacat tcaccaaaca acacacatta cttttcttat ataaaaaat gaaagttatt 240
 tttgtcttga catacattca ccaaacaaca cacattactt aagtggatac gtatatatta 300
 gtatagtaac ttagtacaca tcattcacat aatggaaatt aaacttgttc atacatataa 360
 ttcaaatatg cgatttacat c 381

<210> 17455

<211> 405
 <212> DNA
 <213> Glycine max

<400> 17455

ttgatggaga gatatggcct cctctagttt ctcatcttta tacaagaata caacagattt 60
 atgaacattt attttttgtc ccgagccact acaaaagcat acataataga tctgataacc 120
 taagcttgat gtacagaagc ctcaaccacg aattatgtca tcgatgaaga atacatgcac 180
 cactgtgact cctgtactat tcccaaacca gaagggtttg caattaccct cattgactga 240
 cttttaaatg agatatgcta ggctctccat gtgcaagaca aagaggtacg ggggtgaagg 300
 gtcccccttg ctcagtcccc atgtaggagc aagagaattg caattgatag ctaacgaagt 360
 gctcatacaa ttagagagaa tatcagtcac ccaagaggga atctt 405

<210> 17456
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 17456

tcttctttca tggatcatcat atacaagatt aatctatggt acttatattt tatctattaa 60
 ttctttttta tcaaagttag tttttcacia caatttcaaa atattcttta tttaaaaaat 120
 atgaaaaaaa cttaattat ttgtaagaat atcctcataa tttagtatct tacttaagta 180
 cataaatgaa tttataacta tatttttcct ctttcaataa aaatatattt tcttgaatgt 240
 taattttcat catcataata ataatttata ggattaatta agttcttact cattcgactt 300
 tttcatatta taatcttgtg tcccttacia tattgttaac agcttttatc cttcattaag 360
 ttttcgtcac tcacttttag tccc 384

<210> 17457
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 17457

tggctttaat tataccaaga tagatgtttg ccctatgagt tgcattgtgt attgggaaga 60
 agatgaaaat ttgcagattt gcaaacattg cagaaaatct agatggaaag caaaaggtaa 120

taatggtaaa aagaatgtac tagcagatac tttcctttga aaccaagggtt gcagaggtta 180
 tttgtgtgtt ccaaaatagc aaagtccatg agatgacatt ttttaaataag caacccaaat 240
 ggattgttga ggcattccaag agttgctaata gcatggaaaa gttttgatca aattcaacct 300
 gaatttgctt tagaacctag aaatgttcgc cttggccttg caagtgatgg cttcagcaca 360
 tgccgaacca tgaataataa gcatactata tgggtcgggtgc ttctaattcc ataca 415

<210> 17458
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17458

attctttaca ttgggttaca aagatgaacg aggatggaat tgaaatgact atagtcacat 60
 acagtataat tgtaggggga ttcgctaaaa tgggcaatgc tgagtaagta aaccagataa 120
 atattcctca ttactgcatac tttgtattgg atgttcgtac ttgttagata ttcttttgat 180
 catataccga ctctcctgaa agattaagct attaagttaa gctatataaa tggattttgt 240
 ctctaactcg tcccatatac ttgggctcga tgcacagcta atatacatgc ccactttaat 300
 tgtgctgttn tttttttgta aaaaaaatta taataattnt ataaagaatg tagccagcaa 360
 ggggttcaatt tggactactt gg 382

<210> 17459
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17459

ntgtgctcca actcaacagg taggtgattt gatttattat agaccaattg gaagggacca 60
 atcctttgta tgctattttg tatgcccaca aagcttcata tagtttttgg gaccaatcct 120
 tccttgactg agcaattggt ttctctagga tctcctagaa ttccctatta gagacttcag 180
 cttgcccatt ggtctggggg tggtaaagtg aagctaccat gtgtttgaca gtatagtgtt 240
 ggaggacttt cttgagttgg gaattacata aagaagatcc tccgtcactt atcaataccc 300
 ttggtgatgc aatcctaccc cgcaagggca ttggatagaa aactccaagt agattggggc 360

agatatgcaa gagaaggccc tatggttctt atgagcctt

399

<210> 17460
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17460

atctntgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
ttaccctcgg aagcaaaaaa agaatagagg ggaaatttcc aatcaaagaa aaagagaagg 120
aaaatttcca atgaaagcca aaaaagaaaa gaaggaaaat tccccaatca aagagtggga 180
gaaagcaaaa agaaaagaaa ggaaaattcc caatcaaaga atgggagaaa gtaaaaaaag 240
gaagaagaag actgaaagaa agctcctgat caaggatcga aagataacat aagatatgtg 300
cagagagggtc tttggaccgg acaatatctg aacaatacag aattgccacc aaatgaacga 360
taaaag 366

<210> 17461
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17461

gtgcggaactt ggactccgcc agtttttggtt ctatgtggga ccaaaaagag gctaattctga 60
gcattctact cggacgactg acaaaactgn ggcaaatgat gatggtgaga aaaaaggaga 120
aaccatgct gtgactgcca ttgctatact gctagtтта ccaccaaccc aacaatgtca 180
ttactcagcc aaattcgaac ctactcctta ctcaccaccc atctatccag aaaggccatc 240
cctcaatcaa ccacacagcc tgcataccgc acttccaatg acgataacca ccttttagcac 300
agaccaatac aaataacacc aacagatagg aatgttgctg cacaagccta taggggttcac 360
cccaaattcc tgtgtcatat gcgaaacttg atcccatatc cact 404

<210> 17462
<211> 385
<212> DNA
<213> Glycine max

<400> 17462

tgcatgcatt ctttgaattc tagtaaaaaa aactccacaa acatattcta atactcatgc 60
acctttttaca ttcaaaaccg gaaagttaga ttcctaggca tgagtcatcc ttttggcact 120
ttagtctagc ttctacaaac taccacacaca ctcaaatgc gcacaattta tttcgcaagc 180
taagtccctc aaaatcatgc gcaaatgcaa ttgaggcatt tcaccgaaca cttggtgggc 240
gcatgtttta gcatgaaaat caagggaatg ggggcaatgt ggcattgccc attatctcat 300
aacgcacct aggccgaagg ccatccccta caaccctca attcaacaaa aacaagcaat 360
aattcaagga taaatccctc acgtt 385

<210> 17463

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17463

tctcccctat nttgctataa ataggggaag ttgttataag aaaagggttc agccccttag 60
gcacttctct ctctttcgaa tttgcttgga aaaattatct cgcgaagaa aatccaagtc 120
gaggcgcttc cgaaacgttt tcgtaacgtt ttcgtaagga atttcgcgaa ggtttcgacc 180
gttcttcgat cttcaacggg taagtacctc gaaccaagct tttcaattca ttctatgtac 240
ccgtggtggt ccacattgtg tttcgggtat ttatattctc gattcatttg ctttttatac 300
ttccttttga cgtgcttaag ccattctatt taagtcattt ctgccttaac ctaaaaataa 360
aataaatatc caccgatc 378

<210> 17464

<211> 364

<212> DNA

<213> Glycine max

<400> 17464

tgttttctaaa ggcgtaagaa gcaattatgg agatgcagga agcaattgtc tctaaataag 60
ggtgaaatcc aaatacacct tcaaaattca aggtggattg acatgcctct tttttgcccc 120
agttgcacgt caaaaacaaa aggcaagttc aatgagggtg ttactaggtg cacccaacac 180
cattgcttgt acatccaaca attcaagtga agtggcaaaa atatccttca cttaaatatt 240

aaaacccctc cctcctacct tgcatttgta tgccgcacca gctccgttct tgcctttctt 300
 ccttcgtttt gcgttttgag ccatgctgcc acagttaagg ccagctccac cactgttatg 360
 tcat 364

<210> 17465
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 17465

ttgtggcact ctgttacaca cgtcagccct ccatgtcagt tctggcacag gagcacatat 60
 atcatgccct tagcaattgg actctcaact gacaggttat ctctaaccat ttatattatt 120
 tgaatatatt gcaatctcct tatecgtgg caggatttca attatctcta agctacacat 180
 tatctataag ccataattat ttacttgtca ttacctacaa gtcggtaatt atctgtaagg 240
 gttgttacaa caccgtaata gccctacaa acaatatact gcaacttcta ctctactcta 300
 taagtatcag gtttcatctc actcttttca tactcattca tactctccta attaacatac 360
 ttacttgagc gtcagagtcc tttgttttgt agggcccccc tcttgctctc ttcacaaa 418

<210> 17466
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17466

ttgtgactct tggcaatttc tttaaaacta gtcacttaaa aagttgtgac ttttgaaaaa 60
 atcttttagaa acaagtcact tgaagaattg tgacttttgg aaattttatt ttcgaaatca 120
 gtactggta atcgattatg tgactcttta ttttaaattt tgaaaattaa aatgtttaga 180
 agctatggta atcgattaca agtatttgtt aatcgattac aaaagttgaa aatgttttaa 240
 cacaagttgt aactcttgaa atttgaaatc ttaacgtttt aaaacactgg taatcgatta 300
 ctaccttctg gtaatcgatt accagagagt aaaactcttt ggtaatgatt ntgtgaaaac 360
 ttcttgtgct actcaatatt tt 382

<210> 17467

<211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17467

gctacaagga ttntgcgaga ctcttngag ggaaatttaa tttgtataat tgctactatt 60
 tccccgtctg cttgttgtat ggaagaaaca cttactacat tagactatgc tagccgtgca 120
 aaaagcataa agaataagcc tgagggtcagt taccactgct attgttcctt acaagttaca 180
 attcttctaa aagcagtttt aaagctttgt gtgtttttta aaaggcaaac caaaagggtt 240
 cgaagggttg tttgttgaag gacttgtaca gggaaattga taggggtgaaa gaagggtacac 300
 tcaccaccac tattagtttt ggaatgtaga gaagattttg tatcttatct tttgtataat 360
 atgaatattg cagatattcg agcaacaagg gaaaagaatg gtgtatata tttcatga 419

<210> 17468
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 17468

atcttttttc ttcagagctt attatagaag atctttgttt tgcacgatag agtgaattgc 60
 tcttctaaaa agaaatatat gtgatagact gcaatttacc atacttattt ccagtgtctg 120
 atacaacttc agtgagaata aaatctctcg cagattatat gatagagctc ctgattgcat 180
 gggatatgcaa tctgaattgc gttacccaag aaatatcgca taccaatacc agtaaccgtc 240
 tatcaagctt atacgtcttg catgtgagta ttaatacata tattaaaaat aatcggtctc 300
 ttttatactt aaagagaatc gttataatag ctaattgagt aatacggtat acacatgcac 360
 atcttcacga g 371

<210> 17469
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17469

tctcttctta tctactatcc gtgtaccatt anatttatgc ttttttttac tgatagggga 60

tcgactcctg aagcccgcgg caatattcgg tggagaacag cgggcttgaa atatgaaaaa 120
 atatcccttt tttgattctt atttttaccc ccattaaagc tcttgactct cttatatccc 180
 atttccagca ttgtgtgagg atactaacat aaggatgat agtgtaatga catttcaacg 240
 acaacaaaag catgtttaaa gcatgctagt ataatacagg aattaagatg ttctctcccg 300
 acaagtagtt ttttaatgta ccatatggcc ccgacacagt cataagaaca tt 352

<210> 17470
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 17470

ttcttgtgcc aataaagatg gtgaaaaaat tcaagaatag ttcaatacca tttcatctct 60
 tgaaaatcta cacccttgtg gagtggatcc cacctcaaga gttccaatct tacatacggg 120
 gagaagatca gtggaagact caatgacata taagcatctt tatagggtga tgagtactct 180
 cttttccatt cttccattct acttttgacc aaggatagtt gaccatattc ctcagaagca 240
 tcaactgaaaa tctcatcagc agcctgcagc accaaatcac tttgtgactg atatgcttgg 300
 ctctcactat cactctcatc agtgcttgat tcacctteta ttttatgatc atcccattcc 360
 atggatgtga ccttattata ac 382

<210> 17471
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 17471

tgaagaggat gctttaatgg aggaaaagaa agagttatat gggttgagcac gaaattgaag 60
 gaataaaaga gggagagaaa tgtgtctcat aagactttca ttcatacaag ttacaacaag 120
 tgtaacacat gtttctatct atagactagg tagcttctct gagaagcttc tttgagaaaa 180
 ctctcttaag aagttagagc ttggctacac acacccctct aataactaag ttcacctctt 240
 tgagaagctt gcttgagaaa attcctaaag aagctagagc ttagctacac acctcctata 300
 atagctaagc tcacccccat tccaataata catgaaaata aaaaagaaaa agtatctact 360
 acaaagatta ctcaaatgc cctaaaatac aaggctaaaa ccctatacta ctagaatg 418

<210> 17472
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 17472

agcttgcctt atgtctaaaa gaaatttgtc ccaacagtta aagtgagact gaaggggaata 60
 tgtggggccat catcgatgag tgcaaagaga agctaaatct agcggcaact cacgagcaaa 120
 ggctagagga tgagtacgcc aagatatcag aagaaagggg agcaagggaa agggtaattg 180
 attcattgca ccaagaggca gcaatgagga tggaccgatt tgctcttact ttgaaaagga 240
 gtcaagaact tccccgattg ttagccaagg ccaaggcatt ggcggacacc tactccgccc 300
 ccgaggagat ccacagactt ctcagctatt gtcagcatat gatagactta atggactata 360
 tgattagaaa ccacta 376

<210> 17473
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 17473

tgtgtggcgg ctggccaact atgtatcttg ggtgtgtatc tggaaattat cctctggtaa 60
 tcgattacca ttcgtgggta atcggttaca ggggttaaaa atggagacag gatgttaaatt 120
 ggccctctggg aatcgattac caattgtgtg taatcgatta cacaggggtga tagggcactg 180
 gtaatcgatt accagttggg tgtaatcgat tacacagggg gatagggcac tggtaatcga 240
 ttaccattta tgtgtaatcg attacacagt gtaattttta atttccaatg tgcaaaggct 300
 gtgtaattcg tttttgggca ctggtaatcg attacatact ttggtaatcg attaccagag 360
 aggaaatccc ttgagaaaga cattttgact atgcgtagcc gttatgggac gcattg 416

<210> 17474
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17474

tttatcttga tgcaatccta ccccgcaagg gcattggata gaagagtcca agaacattgg 60

accaaagatg caagagaagg ccctaggggt ctcagttagt ttaaggtaga tttcggggccc 120
atggggctaag tacgagccca cttatctttg taaatattag attaagggtt cattatTTTT 180
gggccttgta gttaggggtc cataatgtag gtaggggtgcc ttagaaatat aggatttttc 240
agcccttgta ttttagggca cctagactag tttttgtatt aggggtagtt ttgtaatttc 300
atatgcacta agtgaatatt tgatcgtgtg gttggaaata aatttaattg aattggtaga 360
agcccaatcc aattaaattt t 381

<210> 17475
<211> 413
<212> DNA
<213> Glycine max

<400> 17475

tgtgaatccc aagataatca aatgggtact tagatcttgg ttacctgaag aaatagagcc 60
caaagtgaag tacatgaacc tcaacagttg cttccacaaa gaagtcaacg ggtggcatct 120
gatattattt ttatacttgt aaaggataaa tattaatttt atacttataa attcaatggt 180
accgctatga gacagcatcg actcacgcgc aactgctttg gggtaaatat taattttata 240
cttgtaaagt ggacattgcc tctatgagac aatatcaact cgaggggaac tatttcaagg 300
taaatattaa acaccttaaa tgcttgtaaa gccaacgttc ctctacgaga cattgttgaa 360
tggggggaaa ttgcttcagg gttaatatTT aagtcttgta agcacacctt aaa 413

<210> 17476
<211> 383
<212> DNA
<213> Glycine max

<400> 17476

tctgctttgt tgtgaaaacc aaaagtggca atgaaaaata cttatatggt tgtaaattgt 60
agtggaaatt tgtcgggttc caagaattat aggtagtctc aattgtagag acgaaccatg 120
taacacccca attgggctat gaagggtttt cactaaattt taatttaaag gaaattgtta 180
tttaatttat ttatgaaaat acgatttaga ttttcacgat ataattgtat atcaaagaca 240
tacattaatt tacaataat tccaacaagt catacactag atatagataa tgactatgat 300
catagaaata tctcaaaaga aaagttaggt gaaatatgtg cgagcatcaa caatgtaacc 360

actacctact gtattacatc taa

383

<210> 17477
<211> 410
<212> DNA
<213> Glycine max

<400> 17477

tttctatcta gtgctactgc ttagatgggt tgttttatgg aaacaacggg ctttgaccac 60
aatagttgtg ttcgactaaa ttcgagtttc ttaattgctc tactcgtagt attaaactat 120
gttgagttaa tctcatcttt tatgaaccat cttgaataga gttaaagtca tgttttggtt 180
gtatttcatt gttggtgatg atttagtttg gtgacagata attccttaat gaagcattgt 240
ctttaaactt ttagtgtggc tgaaatatct ccttgcgaga caccaaaatt caaatttcaa 300
ccacttcatt aatctttggc ctattatgct atttcctaaa ttacttgacac ctacgtcttt 360
aaactaatc gatgttcaca caagatgcc atcatttctt ccttatattc 410

<210> 17478
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17478

tctttcttgt gaagttctct gtgaaatgag ataatcaatt acacgttttt gaaaatgcag 60
aacaaaaatg gattttaatg aattaatcaa ttaccctcac ttgttatctt tcattaatga 120
ctcttgatat gatcttatct tttataaaaa cacattttta agtcacccaa gggaattact 180
ttgcatttct ttaagagatt caagttgatc aagattcatt cactcttcat catgagttga 240
taatcaaagg aagagcttga agatgttgtg atctacacat caagatgtat tccatccaat 300
tntgatttct ctctactttc ttaatcttgg ttaggggttac caagggtttt tcgagttgat 360
aggatttcaa ctcttgga 379

<210> 17479
<211> 413
<212> DNA
<213> Glycine max

<400> 17479

tttagagaag aggaataagc agaaaaatat tgctttgact aaggcataga agattgaaag 60
 ttcctatgat gatgaagata gcaaggaagc taggttgact aagattgttg agaaatgtca 120
 caatcaggca acatcttttt acctgttctt atctctcttt gactaagtct ttgtatactt 180
 gtcattgtct gttactgact acttcggctt tttcgtccag ttgacagctt ttggtgaaga 240
 acaataaatt ccatcttggg gagtaaaagt ttttggagat aaggttatta ttctaagaca 300
 aagttttctca gtcattctct atacatgggt tgcctgtttt atctcttaat tgtttggatg 360
 ctggaagtta ttaatgtttt cattttgtga attgcagaaa gcctttcccc etc 413

<210> 17480
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 17480
 tcattcttct acattcaatt togagctttt cgatatatta cgggactcaa tcggacatcc 60
 gagtaaaaag ttattgtagt ttgaatttgc tcagggttc ggtattccat ttcgagcgtc 120
 tcgatatatt acgggactca atcagacatc cgagtaaaaa gttattgtcg tttgaatttg 180
 ctgagagctt ctacattcca tttcgagcgt ttcgatatat tacgggactc aatcagacat 240
 ccgagtaaaa agttattgtt gtttgaattt gctcagagct tcggatttcc atttcgagcg 300
 ttcgatatata ttacgggact caatcagaca tccgagtaaa aagttattgt cgtttgaatt 360
 ggctcagagc ttctacattc aat 383

<210> 17481
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 17481
 gtgagaaaat tcaaacgaca ataacttttt actcttatgt ctgattgagt cccgtaatat 60
 atcgagacgc tcgaaattga ataccgaagc gctgagcaaa ttcaaacgac aataactttt 120
 tactcggatg tctgattgag tcccgtata tatcgaaaag ctgcaatgtg aatgtagaag 180
 ctgagagcaa attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240
 atatcgagat gctcgaaatg gaataccgaa gctctgagca aattcaaaca ataataactt 300

tttactcgga tgtccgattg agtcccgtaa tatatcgga cgctcgaaat tgaatgttga 360
agctctgagc aaattcaaac gacaataaac ttttactcgg atgtctgatt g 411

<210> 17482
<211> 378
<212> DNA
<213> Glycine max

<400> 17482

tattcttgaa atcatctatt cagatgtttg tagccctata caagtagagt cccttggagg 60
aaataggtac tttgtaacct ttatagatga tttcactaga aagacttgga tttatatgat 120
caaaagaaag agtgatgtgt ttaatatatt taagaagtac aaagcttata ttgaaaatca 180
aagttctagg aagattaaag tgttgagaac tgatggagggt ggtgaatata cctcaaaaga 240
attcctagaa ttttgtgatg aagcaggaat tgtacatgag ttcacaccac cctacactcc 300
acaacacaat gggttagcag aaaggaagaa tagaaaaatt atgaatgcgg ttaggagaat 360
actcaaatgc aaggatct 378

<210> 17483
<211> 414
<212> DNA
<213> Glycine max

<400> 17483

tgttgttctt ttggatgacg tgagtattat gtatattctt tccctttcat cctccattta 60
tagctactat atactccatt aaaacatttc aaacaattgt ggggaatatt taattcgggt 120
ccatgtatca tatgttgtct tgataaaaac taaaaatcaa gtagtgatac tgatattagt 180
tacttttgtg ggattcacac agtaggtaca gctgttcta caaaataatg tgtaactga 240
ttggagtttc ccctagactt gaatgtaaaa ggctgacaat ttgttactaa atcctaattt 300
gtacctttgt ttaacaaaaa ctgttgatgc atgtttgggt taaaattata tcggagaaat 360
aaatgcttat ttatttcagc attctaagag cttctgatta agagaagcta ctag 414

<210> 17484
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17484

atctttctcat tcatggttcc aaaatttcat tttcattctt agaagtttga ggcatacaaga 60
acctgagctc tttgttcatt tgagtcattt tgggtaactt cattcaaggt aagggggggtc 120
tttccacttc ttgaatcata accttggttg atttagaagt taggcttcat tgcatgttgt 180
tttgatgttc aaatattcgt agctactgcc ttgtttggaa ctagaggata tgctgttttt 240
tatggaaatt ttaagggttag aaatgagttc tttgggtgtt aaaacttang attagcctta 300
aatttcactt aaattggagt tttctagcaa aagttatgaa taaaataagt tgacagacat 360
tctgtagaat 370

<210> 17485
<211> 412
<212> DNA
<213> Glycine max

<400> 17485
ctgcctatct gcagcccatt ttcttcccat tctcaatttg caataccgtt ttgcaccagc 60
ttcattaatc ttaaaataaa atcgaggcta aaaaaaaag acaaatttat caaatatcat 120
atgcaaaata atatatatat atatatatat atatatatat atatatatat atatatatat 180
atatatatat atgaaaaata gtaaagatag gggttctaag tgggtgtagat ataaaaagtt 240
atatataact aactgacata cctttaaaat tgttgagag caatcatcaa aataagcttt 300
aagtacgct gaaggtgcag accatctatc ataatccata agaaataatc tgcaatcagc 360
tactagtgtt ccaagatata ctgcaagcaa ggcttgtgct tcaccaattg cg 412

<210> 17486
<211> 369
<212> DNA
<213> Glycine max

<400> 17486
tttctttatg tcttttgttc ctgaatttat aatataaaga tctttcttca tctgttctca 60
cgtctctacc cattctcatt catttgcatg tttatttctt tacgtttaaa atgccagatc 120
cgacgacgag tccctogaag gtactaatat ctgtgaccgc accatcgatt tcaagcaaga 180

aacgaatcag acggagagtg aagaggacga ggatgtggga cttcccccg agttggaaaa 240
gatagtcgcc catgaggacc aagagatggg gcctcatcaa gaagagacaa cactagtggga 300
cttagaaaacc ggcagtggga aaaaggaatt aaatataggg atgggtatga ccgcacccat 360
ccaagaaga 369

<210> 17487
<211> 365
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17487

gttcaaaacc aactaatatc aaaatttact attactttta angcggaat atgcctaaca 60
gcactggata tgcattgaat ctgcactact tcagttacaa gtgcaatcaa ttatctaaac 120
ctatagttat ttaaaagtct aaaaaactat attgggatag tctaaacaga acccaagata 180
tgcatatgca cacgtatgca tagcaataaa caatcagtca tattctcatc acaggcataa 240
cactctcaat tgtcatagta atatgccatc cttatataat aattatagac ataattcaca 300
ggctattaga acaatgcaa ccacaacat tctacaatag atactcctgt aatatagcct 360
tcaat 365

<210> 17488
<211> 350
<212> DNA
<213> Glycine max
<400> 17488

agaagtcctt gtcaggcaga ccaaagcac ttgaatcact cggactcgag cgccaacgta 60
ttcttaggag aaaggacggc aatcccagca ctccaaggga caacgactac ctgactcac 120
cacaaccaat cgccaaccgg atgccgaggg aagagccctc ctcagagcgg gaatccctca 180
aagtcggtgt accgagacca gaaagcaa atgtagccaacg gaacagaacc ctcccaaadc 240
gggaaccgcc ctaagcaacg aaatacagaa atgagcgcca caaactacga agggagggga 300
gtgccgtcct acccagcagc aggaccccc agaacaaccc gacctccccg 350

<210> 17489
<211> 332

<212> DNA
<213> Glycine max

<400> 17489

ctccatacca gtggcaacag ttgggaagaa cataatctct ctaccaaagc ctattggaag 60
gatctatgag attattctta aacttcataa gtgtctcacg ctacttggg atgcacacac 120
tctctctgca tggtaagctc agcaacaaaa gctggacaaa gactaaaata taaatggagg 180
aggaattcat gatcatgcta cgcaaataa gaaaacaagt gtgtttttat aaagctgac 240
gtaacaagtg tagttgttgg ttctgcataa caatctatca acttctatta atgatacatg 300
cagcctacct gtattttctc gacattgata tt 332

<210> 17490
<211> 373
<212> DNA
<213> Glycine max

<400> 17490

ttcttctttg ttttctaaaa ggtttaatta cattttttac cctaatttta attgattgtc 60
actagcacta caaacagttt ttggatcatca catagaataa tttttgttca aattttaatt 120
taatatctgt cttctgttga aaatggacga aaaatatgat gcttatgtta tagcggacta 180
aactagagtc attttttata ccacaagcaa ataaagcaat ccagtcaa atcatacgga 240
gtaaccatga ttaacaggta tacgggtata caactctttt tgacttgcaa cctttcatac 300
aaattctaaa taactgtcga tctccttata atattatata atgtacacac aatccacact 360
ttttcttgaa ata 373

<210> 17491
<211> 338
<212> DNA
<213> Glycine max

<400> 17491

taacatggaa caaatagagc atcttacctg agccttatca tttattgttc gcaagattct 60
agcataatct gtgcccagca tttgaatgac aagatcagcc caaacggtc cccaaagcct 120
gttccacaaa ccaaataaaa tgttttagaaa tactcactaa gtgtgcctca gatatgacct 180
aaatctgata tgtaaggtag ttgaaatggc gctgaaaagg cctaaggtg cattgcataa 240

aaaaagatat agctagtaga attgactaat cacttcctaa aaagttggct aatgagtcgg 300
gagaccctg gacaaaaaac ttgctatatt gtacactg 338

<210> 17492
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17492

atctttaaca aaacantctt cgtgaggaag gacccatgta tggttaacat agccaaaaaa 60
cattggccat ggggagcaaa caacttcata ctgcttaaag caggcatcaa actattgctc 120
aagaagacaa tccactaaac tctcccaggc ttccattaca taatccaatg catttatttg 180
accaacaagg gttctacact ttgccttcac atccttatca atgtgaaact gacacaacaa 240
attcatggac ttaaggaata caactttcac cgcattcatc aatgctagat ctctgtcgga 300
gacaataact ctagggagtg catcacgtat aaagaaaaga cgacgacacc tatctagagc 360
ccaaa 365

<210> 17493
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17493

ntaaataggc attcctatct gcaaaagaat aaattttctg gtagaaaata aactcaaccc 60
aagtgtgaga tggttgatgc atccaataaa aagggtgagac ttcataaatc ataaaaatga 120
tggtttactc aaataaatta cattttatct ttcaagaaca atttaaattg tgttgagatt 180
ttttttggta aatcataaaa tgatgtagaa attaaattta aagatagaaa tgaaagagat 240
tgacaaggag aagtaattga attaagacat gaaccatcaa tgagttgtat atgggggttg 300
tagtcaagaa ctaatcttta tgtgttaatt attaaatcat ttaatttata tatgaaaata 360
ctagaaattt taaagacaat tatttataag aaacttataa tatgactata cttgattcac 420

<210> 17494
<211> 377

<212> DNA
 <213> Glycine max

<400> 17494

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 catatagaga cgctcgaaat tgaacaacgg aagctctcga gatatgcaaa tggtcataac 120
 ttttaactcg gaggtcggat tcatgcacat tatatatcga gacgcccgat attgaacaac 180
 ggaagctctt gagaaattca aacggtcatt actttttact cggagggttcg attcaagcgc 240
 gtcacatata gagacgctcg caattgaaca acggaagctc tcgagatatt caaattgtca 300
 taactttcaa ctcgagggtc cgattcatgc acatataata tcgagacgct cgaaattgaa 360
 caatggaatc cctcgag 377

<210> 17495
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 17495

tactcaagct taaaggagaa gttgggttttc tgaactctaa actttttact ttacttattc 60
 aataaagatg ctgaatgaga gctcatatat gcttgatgag gtgctacagc ttgggaagaa 120
 tgttggaac cagagaggac ttgggtttta tcataaacct gctggcagaa taaccatgac 180
 agaatttgtt cctgcaaaaa acagcactgg agccacgatg tcacaacatc ggtctcgaca 240
 tcatggaacg cagcataaaa agagtaaaag aaagaagtgg aggtgtcact actgtggcaa 300
 gtatggtcac ataaagccct tttgctatca tctacatggc catccacatc atggaactca 360
 aagtagcagc agcagaagga agatgatgtg ggttccaaaa cacaagattg tcagtcttgt 420
 tgttcatatc 429

<210> 17496
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17496

tgagccaaaa tctaactca ccatatacct tgaccacaggt gagaatgaca atccttacct 60
 tcggaagcaa aaaaaaagag aaggaaaatt tccaatcaaa gaaaaaaaaa gagaaggaaa 120

atctccaatc aaaaagaaaa aagaaagaga gaaggaaaat ttccaatcaa aggaaaaaag 180
agaagacagg aaattcccaa tcaaagagtg ggagaaagcg aaaagaaaag aaaggaaatt 240
cccaacaaaa gaatgggaga aaggaagaag aacaaggaaa gaaagctcct ggtcaacgat 300
caacagaaaa cagaagaaat gtgcagaaag gtctttggac cggacaatat ctgaacaata 360
cagaggtgcc actaaatg 378

<210> 17497
<211> 400
<212> DNA
<213> Glycine max

<400> 17497

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tgatagtcac cgctttaaga gtgctgtaca ccagcagcgc ttcgaggcca tcaagggatg 120
gtcgtttctc tgggagcgcac gcgtccagct caaggacgac gagtatactg atttccagga 180
agaaataggg cgccggcggg gggcaccact ggttactcct atggccaagt ttgatccata 240
aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300
atcctgggta aggggtcagt ggatcccgtt tgatgccgac gctatcagcc aactcctaag 360
atatcccgtg gtgttgggaag agggccatga ttgtgagtat 400

<210> 17498
<211> 378
<212> DNA
<213> Glycine max

<400> 17498

atcttggtat ttgaggctta gcgtaccatc aagcttcaac ttacagagag tagttcatgc 60
ttagcgccac aggtggtaag cgtacttcca agagttcaaa aaccgtaaga gattgggtgct 120
tagtgcttcc tggccagctt agcccagctt aaaagctcaa gttacagaat ggatatgggg 180
cttagtgcag gatagcacgc ttagcgctgc tacaatgaaa tgtatacaga gaagaagtgg 240
cgcttatcgc atcatccacg ctaagcccac aggttaaagt tcaattacca caaagatatg 300
gggcttatcg cagtgatgtg cacttagctg aactattcag ccaaccaatc atgggtctct 360
atgcttagca cgagcaag 378

CCF-6000

<210> 17499
<211> 407
<212> DNA
<213> Glycine max

<400> 17499

tgcacacaag attctcctta cctggcactt caatttcttc tgggtgggac atatagatgt 60
cttcctctaa atcccatgt aagaaagtag ttttaacgtg taactgctct aagtgaagat 120
tctctacagc tacaatattt agactaactc tgatgatagt catctttaca actggagaga 180
agatctcttt gaaatcaatt ccttgtttct gctgaaaccc tttcaccata agtctcgctt 240
tgtattttct tctaccatca tattctccct ttagcctata aaccactta ttctgtaaca 300
ctttctttcc ttctgacaat tcaattaaag accacgtctt attcttctga acggatgtca 360
tctcatctat cattgctagc tccactcaa tagaatcatt ccccttc 407

<210> 17500
<211> 377
<212> DNA
<213> Glycine max

<400> 17500

tctttctttt tagtctcagc tgatgaagat gaattcgtgg ctacttcatg cactcctcta 60
atgacaataa catcatttct ggcactaaat tgctgggagt ttgaagccgt cttctcaatt 120
aaatttcttg cttgagcagg ggtcatgtct ccaagggctc caccactggc agcatctatc 180
atacttctct caatgttact gagtccttca taaaaatatt ggagaagaag ctgctcagaa 240
atctgggtgg gaaggcaact ggcacatagt tttttaaatc tctcccagta ttcatatagg 300
ctctctccac tgagttgect aatgcctgaa atatcctttc tgatggcagt ggtcctagat 360
gtagggaaga atttctc 377

<210> 17501
<211> 409
<212> DNA
<213> Glycine max

<400> 17501

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tatcctagtg acaacaataa agttgtttta gttgtatcta ctttggcata gtagatttag 120
gcttttcccc tatgtaatct tgtttttgtc tctctgtaac caaacatcac atatatataa 180
atcagttgag tgtgggttagt gaagtgaaca aaataaaaca aagaagggag ttgaattgtg 240
ttttcaaata aacttctcag tataattttc tcaaccagtt tctagatgaa ttacttataa 300
aagcattatt taataaatga ttatagaata agcaataata gtgaaatagg aagaaaatgg 360
catagcagat ttatactggt tcatcccaag tcataaggct acgtccagt 409

<210> 17502
<211> 544
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17502

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gtaacaatat tactannnnn nnnagaagag gggctcttga tgacgtggta gaacancca 120
nggcnaaanc gagctcggga ccggggggagc cacnagagcc gaacagcaag caagcaatat 180
cttgcaagca cccaccagcc ggagaaacga ggcggccaaa aacggagccc cacccaacca 240
cccgcacaaa gaacaagctc aggacaacac caacgccaga agacgaacac accagagagc 300
ggcacactaa acggaccaga accctcgcaa gcagccacag gacaaacccc gaccagaac 360
cccgcacgcy aagcataaaa gaagagacca gagggagggg aacgagggcc aacggcgaca 420
agggacaaac cccaacacaa ccccaaaggg gaccgcccgc ggctcaccaa cccccagcag 480
aggcaaaacc acacaagaag taccaccca gaccgagggc ggcaacagaa gaccccaaaa 540
ggcc 544

<210> 17503
<211> 325
<212> DNA
<213> Glycine max

<400> 17503

tgagtcatgt gcccttgat gcaatgcttg agcctatgtt attgcgcctg gcattggatg 60
tacgtggtgc atgcccactg tgcataatg catggaccga agacccccga gaaaaggagc 120

cccacagagc ttaattgctg tcgttaaata tgtactggaa tcagcttgaa tactatgttt 180
 gtggactgag tgcgtgaagt tcatgaaaag catggccaag tgacaattgg atatctcatg 240
 tcccacgcta gagattgaat atgctttgca cctaagttaa cagattggat atagatcgaa 300
 gaaccctgag ctagtgagtg ataac 325

<210> 17504
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17504

taatcttatt ttgcaaatat tnacaataga cctcctgaac ctcagcagca aaatcaacca 60
 cagcagagca attatgacct ttccagcaac agatacaacc ctggatggag gaatcaccct 120
 aaccttagat ggtccagccc tcagcaacaa caacaacagc ctgctccttc cttccaaaat 180
 gctgctggcc caagcagacc atacattcct ccaccaatcc aacaacagca acaaccccag 240
 atacaaccaa cagttgaggc ccctccacaa ccttcctctg aagaacttgt gaggcaactg 300
 actatgcata acctgcagtt tcagcaagag accagagcct tcattcagag cttaaccaat 360
 cagatgggac aattagctac cc 382

<210> 17505
 <211> 367
 <212> DNA
 <213> Glycine max
 <400> 17505

tctgctcaat gtgcaatatg aacacatctc tccattcatt attggaatga gaatagatag 60
 tggtgcaaca gatgtagctg ctctcatacc catgggtttt ggataccgtt tattggcata 120
 tctctctcta atgcgaatga atcttctatc tcgagcttaa atactacttg atcactcttg 180
 catgtggggg gataatatta attaaacata gactcacatg tacggaggac caataattga 240
 cgtacctagc acattacata ttgaggcttc atattatgtg tcgacaatat cgtataccat 300
 ttaatcagca tgttgaatta ccactcagct agcgctttgt tatgatcatc atacgctcga 360
 ccctatc 367

<210> 17506
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 17506

gatacccagc aggcacagaa tcacaaacca atacctgatg caaggggtccg cgggttgtgc 60
 accactactg accacaatac agaccggtgc ccttccatgc agcaaccagg aacaatagag 120
 cagccagaag cataagctgc aaatataaac aatagacctg ctcaacctca gcagcaaaag 180
 caaccacagc aaagcaatta tgacctctgc agcaacagat acaaccctgg acggaggaat 240
 cacctcaacc tcagaagggc agccctcagc aacaacaaca acagcctgca ccat 294

<210> 17507
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17507

tactcagcgg accaatttga agaaaattct gtttcttgct aaatnaagca ggagagctct 60
 gatacaatag actcaactca cgacaactcg tagacataac taataagtgc aaatgatctt 120
 gtatgctgag aatgatggct ctgaacttag tagttggata tattaactta tcaatggagg 180
 aaaagactac cgtaatgcta agaactattg ccctttggat gatctcgttt ctaaactgac 240
 tcttatttcc tctataatga atgtagactc tcctctattc atacagttca ttctttgcta 300
 tcataataaa tagaattttc ctttgtggaa ttttctaata tatatcaccg agaatgaatt 360
 ttttgctttg acctattata aatcatacta ccatttc 397

<210> 17508
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 17508

agcttcttat ccaaggctca tcttgggtgt gaagctcett cttccatggc ttattcccta 60
 gtggatgaag cctectgtca cctcttctcc tttgtcttcc gctgcatctc catggtggat 120
 aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180

gcaagcttcc atcaaagtgt atgaatttta aaatccaatc ctacagtttc ttgaattaat 240
 taaattcggtt attattgttt ctgtaatttt atgtattttt gacacactaa attcgattat 300
 atttgttatt tcattccttt agttattttc gtcaattaaa caaacccatg atatttcgat 360
 taaacttgta cttaa 375

<210> 17509
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17509

tggtgccatt agaagagaat gagtatgtga ttggtattat gactggaatt gttagtcagt 60
 ttgccagatt gattgtgaag gaatgcattg accgtatccc ggtgagagtg tgatccttaa 120
 attttgagag aaatgactat catttaatac tgatttttgc atgaatcttt gaagtatgga 180
 ctgaatgcat gaaattgagg atgatgaagg ccatgtttga ttgggatagc cacttagcca 240
 cgtgtttgaa tgatttatcc tttgcaccta atttgagctg aatgaattat tgattgattg 300
 aaccctgagt ctatagagtg ttatctcttg ctaccttgac ttaggttgta ggagagcatc 360
 atccacagaa agtgtggttc anagcanatt tgtcccanat nttggggag 409

<210> 17510
 <211> 383
 <212> DNA
 <213> Glycine max
 <400> 17510

ttcttgggtg atatggaatc tctgtaattt ggagaataaa attatattcag tagaaagaat 60
 acttcaatat actagtattc cttgcgagcc tccccttggt gtagaagaca atcgccaga 120
 tccttcttgg cccttgtagt gtgaggttga catacaagat ttgcaggtag attgagttct 180
 tatatttttt aaagttttgt acttttattt tctttcattt tgtggataat tgatttataa 240
 aattcatgct aaggtttttt tttcctaaat gggtacaagc tagtatctga aacagaataa 300
 ttgtgccaac atatttaata gcataatttt tacactatgt ttgtaatgat gtgttgccat 360
 gatgaagggt cgttatgctc cac 383

<210> 17511
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 17511

tttatgtgaa aggatgtgac ttttcatatt tgaatttgaa tttcaacgtt caaaagcact 60
 ggtaatcgat taccaaaaca ttgtaatcga ttacaacttt ttgaaattaa ttggaacgtt 120
 gtaaattcaa tttgaaaact ttttcaaac aattttgctg ctggtaatcg attacaacaa 180
 tccggtaatc gattaccaga gagtaaaaac tctttggtaa acacgttttg aggaaaatca 240
 tgtgctactc aatttttgag aaaaactttt catacttatt ttgattaagc cttctcttga 300
 ttcttgaatc tttagtctag aatcttgatc ttgattcttg agatcttgag ccttgaatct 360
 tgattcttga ctctaaactt tcttcttgag tcttgaattc ttcttgattc ttatcttg 418

<210> 17512
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17512

tttctattac tttggcttgg ctcatttcca cccctagtgg ttatgattct actctactta 60
 tattttactg ctgtctatct taaaagttaa ccatacaaaa cttgttggtta gttatctact 120
 gacatcctag tacagaaatg tccgtacaat gaatatataa ttttttttc taataatatt 180
 ctaagggtgac aataaattaa tatacatgtg tttgaaaagt cacataacca atatttaatt 240
 gaaattatct gcataatctt acttttntgc atataataag tatatttaac tacttatctc 300
 aaatgtcaac gtaacgaaca ttctacccat tgatagagat ttgtattcat tactagtaaa 360
 taattttaaa aatgacatat acaa 384

<210> 17513
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17513

ttgtgtaatc aattagcact gatttggtaa tcgatttcca gttatagttn ctgaacaaaa 60

gcaaaagatg taactcttcc aatagttttc aagcttttct aaaagttata actttttccaa 120
atgggttttta aattcttcta aagggttataa ctcttctaata agttttcttg actagacttg 180
aagagtctat aaaaacaagg ctatgatttg caaaaaataa caattctttt gacaacaaac 240
ttttgccaat tgatttctaa tatctttgaa cttttgcttc ttcttccttt gccaaaaaga 300
attcaccaag gactaaccgc ctgaattctt tttgtgtctc tcttctccct tttccaaaag 360
aacaaggac taaccgctg aattctnttg agtctccctt ctccttgctc aaagaattca 420

<210> 17514
<211> 53
<212> DNA
<213> Glycine max

<400> 17514

ttcttttctt gcccgtgct gtataccacg gactcatgct caccttcaaa aag 53

<210> 17515
<211> 151
<212> DNA
<213> Glycine max

<400> 17515

tgtctaggca gcgtggcatg agcaaacgaa ggatatgtgc atagggtccc caaacgatgg 60
cggttgggag aggttcaaga attcatcgca ctaactcctc ttcaggattc ctgtcagcct 120
gttgtctaca gcttctctcc caattgacgt c 151

<210> 17516
<211> 379
<212> DNA
<213> Glycine max

<400> 17516

agcttgccac ccagctcgcc caggcaagct aggttgcttc ctccataagc aactgccttc 60
tgagggaatt ctctgtaagg ccaagtatgc ctgattgcta tttgcacccc catttttact 120
aaatacacct cttgctcttt tatggtgatt ttcttcgta atattacgaa actttacgaa 180
tttctgaacg atgcttggtt cttttccgta atgttatgaa accttacaca ttacataatc 240
atcccttctt tgcttttcgg aatgttacgg aactgtacat agcactaaca cctcctttta 300

atatctggca tgtcacggaa cttcactgat tgtgctacaa tgcttaattt gacttctggc 360
atgtctacag aactacacg 379

<210> 17517
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17517

tgactaatca aacttccatt agtcaacaat ggttttctca ttaggtgcac cttgactagg 60
taactgggtt aataaaaaga agacagattc atcaataatc atagggatac cgtgcacctc 120
agaaatcaaa gttccatcca gaattttcaa atttgagtaa aagactcgta caagttcagg 180
atagtaaggt agtttcaaag acataaaggg aatcaaccta gtgttttgaa acaattgata 240
acaatcaaaa tgtttcacca taaaaaaatt taagtctagg tacttgggat caagaatttg 300
cctagaggaa aagagagatg agtactgtag acgttggtcg ttggataaga atagtgtgga 360
tgatgacaat catggtggaa ttggtgtcgg nggtgctccg gtggctccgt gacgtcgatg 420

<210> 17518
<211> 383
<212> DNA
<213> Glycine max

<400> 17518

tttaatatataa taattgcatt aatagaatta atatatatat atatatatat atatatatat 60
acacacacat ttttttcttt atttactaat ataacaaatt gcacaattta ttaaaattta 120
agaataatta ttgtgaagag acagaaagga acaatttaca attgattaaa atttaaaatt 180
taacgcgtcg gagtcaatag caatcagaac accactctaa attttaacaa aataagtcgt 240
gccttttctt tacgggtcaa aataaatcaa gtctatatac aattttctat aaatataatt 300
gacatatagc caatcaatag tagtaattat gacaaacaag aataataaca aataaagtta 360
ttttaaacag gttaagagac ata 383

<210> 17519
<211> 420
<212> DNA

<213> Glycine max

<400> 17519

tctctcagca actttgactg caaaacttca caggagctac atggcttctt tgcaagtgc 60
aagacaagct ttggcatctg agtctcagag aacaccaccc tcagtgc aaa atgcaacaac 120
ctccacaacc acaccaatta gcaacaactt cagtgtgaag agtgagcaaa ctcatgcagt 180
gttgccacat aagagaccag aggaggagca agagtcagag gcaaataagg gtgtgaaaag 240
ggttaaggct gtggaaaatg ttctctgca attcaagcct cttgaggaa atcacataga 300
gcaaatagatt gaggagcttc ttgattatgg atctattgaa ctctgctctg tcatttcacc 360
ccaggccctc taattgaatg tgcattgttt tgagctgaat ttaaagtcac aattgtaggt 420

<210> 17520

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17520

ttctttaacc gatcgtttaa gtcgttatct cgcctaataa atgataaaat gaatttcaac 60
cgatcatttg cattgtaatc tcgtctaata actgttaaaa caaaatctaa cgcgcttc 120
acactgtaat cacggttaaa caaaaaaagg gaaaaataat aataaaaaaa tcaaaatata 180
ttgaaaaaaa taataataaa ataatacaaa aaatcaatcg gacgtttttc tctgaaagtt 240
tccttgatg aattgactaa taaccacaaagt gaaactaagg ctaaaatcaa ctacacaaatc 300
aagctntgtc cacaaaaatc actaaaaacc gttttaaggt ccaacgcctt aaatggctct 360
ctttgctttt atcggttatc atgg 384

<210> 17521

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17521

tgactaggcg agttgattnt agccttattt tcaactttatt tattagtcaa ttcgggtaag 60
aatgagaaat cccaaagaga aaatgtccgg ttgattttcc gctttatttt actaaaaggt 120

atatttttgt tattatatta ttttttacct ctttttttga tttccaacat ggttacggca 180
cgaccgaacg gtcggaattht attttaaccg aagttaacgg ataatacaat tcaaacgata 240
gggtgaaatt tattttattht ttaagttaag cgagaaatga cttacgtaaa atggcttaag 300
cacgtcaaaa ggggggtataa aaagtaaatt agatgagaat aaaacttcac gaaacacaat 360
gtggaccacc atgggtgcat agaattgaatc gtaaagcttg gtttgacgta c 411

<210> 17522
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17522

ttctttctcaa gaaagttttc tcaagaaagc ttctcaagga agctacctag tctataaata 60
gaagcatgtg taacacttgt tgtaacattg atgaatgaga gtcttgtag acacaactca 120
aagttcaaat tctctccctt tttcttcctt gaatttcgtg cccccccct ctctctttct 180
cttctctttt cttttcctcc attgaagcat cctctccaag ctttttatcc aaggctcatc 240
ttggtggtga agctccttat tccatggctt attccctagt ggatggcgcc tcctctcacc 300
tcttctcctt tgtcttcgcg tacatctcca tggtgaaaaa tcaccattaa aggacctcat 360
tgaagctcan agattcagcc 380

<210> 17523
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17523

tggaaggatg catcaatgga ggaaaagata gaggttatan ttagagagag gagggagcac 60
aaaattgaag gaataaaaga gggagagaag tggaactttg aagtgtgtct cataagactt 120
tcattcatca aagttacaac aagtgttaca catgcatcta tttatagact aggtagcttc 180
cttgagaaac tttcttgaga aaacttcctt gagaagcttc tttgagaaaa cttccttgag 240
aagctagagc ttagctacac acactcctct cctaactaag ctcacgtcct taagaatctt 300
ccttaagaag attcctaaag aagctagaac ttagctacac acacctctct aatagctaag 360

cttaactcct tgagatgaga agttagagct tagctacaca cccctataa tagct 415

<210> 17524
<211> 383
<212> DNA
<213> Glycine max

<400> 17524

ttatcttcta acaagcttag aacatcttca aattttgtct aaatattatt acaactcata 60
accaatccat attcaaaacg acaaaagctt ccaaagagct cataacattt taagtttggt 120
ctcaatatca ttctagctcg gaaccaatac atattcaaaa caacaaagta tttcaaatac 180
tcaaaacaga aaaaagttcc aaatgaacca agtttaataa aaatcatcat cttcaaggcg 240
ggagattgca acagaagtaa cgtcagttat caatggttct gtcgggtcac ctatattgaa 300
aaataaaagt tagaatataa atatttaact tgacaaattt aattcaatct ttaaaaagaa 360
taccttcac atcagactcc att 383

<210> 17525
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17525

ntgtataatc acatcagccc acaatttgta tgtttatgct ctctcaatga tgtagagga 60
agttcagcca aatatgggtt agcatatctg caagagggaa ttctttctga tatagctggt 120
gagaatatca aagtggataa tgagcacaaa ggaattccaa tcctgattag gaagttgcac 180
ggcaaaaggg ttcttttgat acttgataat gtggacaagc tggagcaatt ggagtattta 240
gcaggagaat gcaattgggtt tggtttgggc agtagaatta tcataactag caggtgtaaa 300
gatgttctag ctgctcatgg agttgaaaat atatatgatg tacctacgtt aggatattat 360
gaagctgtgc aacttttaag ttccaaggtta accacgggac ctgtacctga tta 413

<210> 17526
<211> 177
<212> DNA
<213> Glycine max

<400> 17526

ttcttgctcc tataacgagt ccacagagga aatgcttacc acctcacaag actggaaagc 60
 ggtctataat gactcctcta cggcttccac ataacgcata gaggatgggc agctcaccaa 120
 gatgtcttcc ttgcctgata cgatgaccag atgcccttcc actaccaatt tcaactt 177

<210> 17527
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 17527

tggatcatct tttaaaaaaa aaagatatcc tctttgtttt attaatatgg gagacaaaaa 60
 ataacagtat gcaatgataa aagaaagaaa aaactttctt gatttaaatac gatagtgcac 120
 tcataccata tataacaaaa gtactctatc cactttatga aagaatttaa ttccctttgaa 180
 cattgaatct cccatgcaac tgggtgtcaaa ctaaggcaca attataaata tatggagaag 240
 atctgggtctt tgattatttg tatttttttt atgaattata cgccatgact ttctgctcat 300
 ttcataaatt aagttgctta ttaaattctaa caactcaggc aaaattagat tcctttccct 360
 gtataaactt aaaacatgat acgactcatt tttatcaata gtcctaattcc taa 413

<210> 17528
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17528

ttttctttta tgcttatcag aggcatccag cctatccctt acacgattcc tcttacttgc 60
 catgtctgaa tcagtattaa caggagaaat gctacgacta ctctctgtat aggacattcg 120
 atttgtagga ctaaccataa ctctcttggt ttgaattaca ttgcaacaag agggactagc 180
 ctccccatta catgttgcaa caagagaaat cttaggatgg gatacatatg agcattgggt 240
 aacaatagat ccttgagtct gtgatttggt gggggcaaaa ttcccatatg atgattgaat 300
 tggagaatgg ggccgagaaa ttactttatt attgattgta ttacttgatg gcaacaatgt 360
 gttttgacct gagagaat 378

<210> 17529
 <211> 400

<212> DNA
<213> Glycine max

<400> 17529

tttaaaatgt gaattaaaac gttcagattc tgctgtttat cgattaccat atatgtgtaa 60
tcgattacat agtgcaaatt ttgaattcaa attttaatag ctgttgtaaa ttacttttgg 120
ccactagtaa tcgattacat cctctggtaa tcgattacca gagagtaaatt ttgtttgaaa 180
aagacttttt aacttaaatt tcttggccaa accttttgc acttcaattg gaattccctt 240
cctatttaat ataccctttc taagactcta gagactgtct tgatcatcca tcttgaatat 300
ctttaatttc tttgtcttga ataaagcttt gagacgcatg tgaacctttg gcatcatcaa 360
aacattcagc ttgatccttt gtctacaatt acttagacac 400

<210> 17530
<211> 371
<212> DNA
<213> Glycine max

<400> 17530

cttgcattct ttatgtttga gtgtccacat agatgtgtgt tatgatcagt tttgcataaa 60
tttctaata tcatcgtgat atgcatgtca tggaaatgat ttggggcatt cctttttattc 120
ctgagccacc tgctaagcaa atatcccgac atccatcatg tctcgccatt tgtaggcctt 180
ttgagccaaa tgtcaaacct tttggtcaga accttggcct aagatggaaa tttccaacct 240
cacccttggg agggagcaca aaaagatctt ctgagagaag ctccctttac cttagggttac 300
aagtgtgagt caagagaaaa gacaagaata tgataaaaat caatcaatca aagattgagg 360
aaaagcaaga g 371

<210> 17531
<211> 389
<212> DNA
<213> Glycine max

<400> 17531

tgagatgagg aagtgttgaa gggtgaaact tccttttttt attgttgacc acagagtggg 60
acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcagggtggg gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgacca acccgggcat agtcggtcag tgagaacctg 180

tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240
 agcaaggagg cttgtggtgg ctggccagct gtgaaacttg actgatatgt gagatatgat 300
 ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttaaaaa tgaagacagg 360
 aggctaagat ggtctctggt aatcgatta 389

<210> 17532
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 17532

atctttgcct ttaaggcttg tacctcatga ctttcttcog aagctttaac ctcatgtgct 60
 ctcacagtct ttagatttgg gagccaatcc aatccttggtg tccggactct catccactta 120
 tgatagccgc cgatgatccc attactgctt cccctaagct ctctgtcctt tcttcacgcc 180
 gcatcccatg ccttgccaac tccttggagt accctcgogt tgtggtcact gaaaccccg 240
 gcgatgaaag gcgtgatgct ttcgtctgat ggcactcctc tcatggggta gccaaagtgt 300
 cttatggcga ggacgggatt ataattaata caacccttg ttcccatcag ggaacatttg 360
 gacatccttc g 371

<210> 17533
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 17533

tctagccaaa tggacttacc ttgtattaat tcctttgata gcccttttga gccttgtgtc 60
 ctttctcttg ttttgaagct cactacaagc cttaagtga aaaccatgat attaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
 cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
 acattgtata ttggttaa at gttggacatg ctgaatgaaa tgttgtttct caaaggctaa 300
 agagtaaaaa aaaaaaaaaa attcgaaaaa agaaaaagaa aagcaataaa gttgagtga 360
 taagatctta aatggcaciaa gaatgatgaa actcttggtt ctactct 407

<210> 17534
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 17534

ttcttgtata gttccccaat ttatgggtcat tttggagtaa attttgtaaa taaatcttgt 60
 tttatgatta atgctgtctc tagaacattt ccattggatt taatgatgaa atctgtgcat 120
 ttttaggtga aaaagagact acgttttgaa ttgcaaaaag tagtagatgg gttaagctca 180
 gcagttgggc taagcgcata tccaccgcta ggcgcagctt cagcgtgctt aacgcaaagg 240
 agaatatggc agagcatcag catcaagggtt gcgcgctaag cgcgagatca atgagctaag 300
 tgcateccgt tcctcttgcc actcataccg ct 332

<210> 17535
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 17535

tgtctcagcg tttacgcgag acagagacca gcatgtcagc catcgctagc aagtaccaag 60
 aagaattaaa tctagccacg gccacgagc acaatgtggc ggacgagtat gcccgagttt 120
 acgcggaaaa tgaggctaga ggaaggggtga tcgactcggtt acaccaagag gcaacaatgt 180
 ggatggaccg atttgccttt actttgaacg ggagtcaaga acttccccga ttgctagcca 240
 aggccaaagc aatgggtggac acctactccg cccccgagga gatccacgga cttctcagct 300
 attgtcaaca tatgatagac ttaatggtct atataattag aaaccgctag gaagtttgta 360
 ttgtcgctca gatcttgact agttataact ttctgaataa aatgagttta tcccacgttt 420
 t 421

<210> 17536
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 17536

atcttgcatt tggaattgcg aaagccccac tccatcatta agattagtag ctgacatctc 60
 aaacaaacaa atcaaacgta acaagacaat tatagttgct gtttgaatac ctcaccact 120

caagtgtatc acacaattat ggctttttctc taatgaaaca ctcttgcctt ttaccactct 180
aattccccctt gagttcttag gcaattcaag agattatggc cacaacaaag aacaattcac 240
caatatgtgt aaggtaaggc tagacaagga aaaggttaac caagaaaaag gctaacaatg 300
tttttaggca caaatgaagg aaataaaaatt cagaatttaa gaattcaagt aacaatcctt 360
catgcaacca atatattacc ttaaa 385

<210> 17537
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17537

ntaacattca atttcgagcg tctcgatata ttacgttcct ctatcagaca tccgagtaaa 60
aagttatggc cgtttgtatt tgctcagagc ttccacgttc aatttcgagc gtctcgatat 120
gttacgggac tcaatcagac atccgggaaa aaagttattg tcgtttgagt tggctcagag 180
attcaacatt caatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240
aaaagttatt gtcgtttgaa ttggcttaga gcttcaacag tcaatttcga gcgtcttgat 300
atgttactgc tcctgaatca gacatgagc tgaaaagtta tgaccatttt aatttcttga 360
gagcttccgt tgttcaattt ctacgctctc gatatgttat gtgtctgaat cggacatg 418

<210> 17538
<211> 381
<212> DNA
<213> Glycine max

<400> 17538

atcttgcgtt ttatttcaga cattccttta tttgcgcagc ccaagtcagt atctagctcc 60
tctcgcatct ctgatagaag tgtcttctgt agatcttcca ggccattgat tttgtttgat 120
ttttctctaa cattggaaag aaaacttgcg gcatcaaagt gggtcacaat gttgttatac 180
aaagctgtgg caagttctgt ttttccgact ccaggaggatc cccatacacc caacatgcgt 240
acagtttcat cataaggctt catgtctagg agtgacatta cctcttccat gcggggccaa 300
agtccaatag gggtctgacc agtatgtaaa ggattatgag ctatgtgttt atagaccttg 360

tcagctatct tttcaataaa t 381

<210> 17539
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 17539

tgcaagttgg taggggatga gaagaatagg ctgttgataa tgatgtatgg aatccgtaaa 60
 ttgaagggga ttatggaggt ggagaagaga aagaatgatt ctgagaggaa ggaagacact 120
 gaagcatgca agttacttgg agaagagaag aaaaagggtg ctgaaaagga aaaggaaatt 180
 ggtagattga aggggtgtat agaggagaag aagagaaggg ttgattctga gaggaagaaa 240
 gctactgaag cttgcaagtt actagaagaa gagaagaata aggctgccgt aaagggggag 300
 attgccagaa ttgaagcaga gaaggcagtg aagtatagtt ttcagattgg tcaattagag 360
 aaacaggtta atgaagcaaa aacaaagttg gtgtctgaga tttctacgtt tagagaggca 420
 a 421

<210> 17540
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17540

tgtcttttgc agtttgaaag tcagacacat tatccaattg tgattatttt atctcatttt 60
 ttgttattta cttattaatt tatttaatgt ttttaatcaa cacttttaag ttttaattat 120
 agtgtctatg gattcgctca ctaattgtta ttttctaggc ttttgcaatt tcttatactc 180
 tttgcacttg caatttgata tctataatct atatgtatat agtatataca tacgaaatct 240
 atatttatag tatatacata tgaaaataat ttataaaagg aatttatata cgtgggtattt 300
 ttttaagagtt ttaatcaata aatttaatta taatttaaaa ataacaaaat gtcacagatt 360
 accttcttaa catcagaata g 381

<210> 17541
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 17541

ttgtatgggt ccatttacia ggagtttgag ggttatgtnt tatttccgac gttagagaaa 60
cctcaaata aaagggccta caacatcttc aacaagagct tctatcagag atacttgggc 120
gcaacgatat taagctaaaa aaaatgaaga aatcaataaa aaaatagact tgggttaaaa 180
agagttctaa tatttctaga cgatgttgat aacatcgaac agatggagaa tttggcaaag 240
gaatgtgatt agtttggtcc tagaagcatg ataatacata caacaagaga tacacatttg 300
ctagatcttg ttggggtcga aaagagatat gaagtgaag tgctaaacga ccaagaatct 360
ctggagttct tttgtaagag tgcctttaga aagagttgtc ctgaaacaaa ctacaaagat 420

<210> 17542
<211> 383
<212> DNA
<213> Glycine max

<400> 17542
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aatggatggg gcctcccttc tctcttcttc ctttgcttcc tgttgcatct ccatgggtgga 120
aaatcaccat tgaaggacct caatgaagct caaagatcca gcctccatag aagctccaca 180
agcaagcttc catcaagtgg tatcaaagca caagagcttc aagtaggtgc tcttaaacc 240
tctattaatt ttttgcttta ctttctcttc cattgggtgtt tcatcatttt tctccatgta 300
tctctcaca tgtcttgtgc taaatgtttt taacatgatt ctttagagtt tccaccaatt 360
aaacttgcta tagaagctag att 383

<210> 17543
<211> 420
<212> DNA
<213> Glycine max

<400> 17543
tacagtatgc ccgagtcatt catccctatg agatgttggt gtattattgg cgatcagaat 60
tgccattcct tggattatag gggtgaacca agctcatgct tttaaaaaa gggtcatcaa 120
gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180
acatcactgc ttcgtctact gccaaacata tttaggatta ttgatgtcct tgttacttcc 240

agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300
 tatcctgcgt aaaaattcgc aataacttcaa ctgtacatca ttgcgataca tccatgcttt 360
 tcattgggtg cattgctcat tgcattcttt ccttgaaaaa taaaataaaa tgaacttaat 420

<210> 17544
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 17544

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 cttacacctt gagaccacg ttagctctac aaatggggcg ttgggcgtat gatgttgcg 120
 atacacgcac ctgcaatctg acgatttgca tgtaagataa cggggccctg tatcacacct 180
 tacgagcgat agatggctat ctctacatgc gcatgggcaa gtggtatgac tatgaacatc 240
 tagtatcgca ctccctcttg agagacttga ct 272

<210> 17545
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17545

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 gcctcctctc atagtccaat agcagacact cgtactgcgt tatatgataa agtacgcgca 120
 ttaagcggtc ttaataacct cgagggtgctt taccctgct atagtgcgac cctgatatag 180
 gatctcatca caccagcttg acggatgtca gtgtctttat atagcgccgc atgctgccat 240
 atagcctggt tcacgagagc ctgcgtcatc gtatatggct ggctgatagt aggtactctc 300
 aacagctcta tccagtcggt catgtacagg ttgatccatt taccatctgc tgctgctgtg 360
 gcggaataga cgtatacgcg catcggttga acatgattgg gtaatgatct gn 412

<210> 17546
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 17546

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ggtgcacaac aagtttctcc acatccacaa tgcgcgcata aaccaccat cccctgttgc 120

ccacctccaa ctgagctcac gtactccac gtagccata tctcgtttc tctcaacacc 180

gggtcccat caatcctccc aagcttccac aacatccaag caaaacaaca ttcacacagc 240

acaagctatc acagccaagc aaaacagagc aaaggcagaa aactctgcca aaacaccaac 300

caaaagtcac agcttttacc actcaaagac cccagtaaca attccttctg tccaattctg 360

taaccgttgg atcgac 376

<210> 17547

<211> 404

<212> DNA

<213> Glycine max

<400> 17547

tgtgtgtatg cacagttatt agttaagtta ttcctttagt tattttgaat ttccaatata 60

gttataaaat gcaattcaat gttgaagcat aaaaaaactg gatattaata actaaataat 120

ggtgaaaaca acaaaattag cgaagctaaa aggctaaata tttaaagta aatgattgtt 180

caacatgtaa attaacaaac catcatttta aaaccagaa aatacaaatt aaaattcagt 240

cactattgtt gtgcgcccaa ttttttttgt cttctaataa caatttccca aattttgtca 300

tgaagcctct ggtagaatga gagttcgtat ccactattgt tgggtgagtt caacaatcca 360

tacatgcatt ctagatgtta gtaggggtct atcgcatgat tggt 404

<210> 17548

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17548

aggcaatcac tcgaccggga tctctaagca cctgcagcat tcttcttgat cctctgggct 60

gtatatatta gcatataact cattcaccat agctacatct atgcttccat cttggaggtt 120

ggcaaggcgt ttgtgtagat tattgtttga actcgaaaag tgcaccggat cgcgcaagta 180

gtataaaatg gtaagaaccg agtatcaaac tctcaggtaa cttgtgttgc ttggtaaagc 240

tatattcagt gaataggtgt ctagtatgaa aatatatgtg taaactatga tcaggtatgt 300
 aaactaacta ttaaaaagaa atatcacgtg agtaatgatg tgtatagaca agaagacaac 360
 gtgtnggttc tcttattagg tgcctgattn tataaggata ttctttactt aacaatgctc 420
 atg 423

<210> 17549
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 17549

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 ttaggggtga caataacaaa tgctttttat attgaatttg agttgaaaat gaattaaaat 120
 gaaatatcaa ttttactttt actattactc tatattttatt gcttgattca tgtattatgt 180
 ttataaatgc cattcatatg gataagacaa caattaggag tataatacgt gactttattt 240
 tattttatat ttagattcat actaaaccat actaatagtg aaagaggtgt ggaactcaca 300
 ctaatagtga aaatttctat acaattcctc tccccttctt agaaaccaa cctaccctta 360
 aggaactaca tctaccaagt cttgtccagg tgataactgt taaaatgaga ta 412

<210> 17550
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 17550

atcttttagtc aaacaaaata atccgaaaat gtcaaagaat tgagtgttga aaaagcataa 60
 caagactttg tgtgattggg ttaaagatac aatctttgca gatgagaatg cttcagaaac 120
 attaagaaat ctagcagatg ggcctaaaag aaatgttata acctggcaag gatcgcacat 180
 aaacaggtat tcattttaca caaaagcaca agatgacaaa agtacaatgc agaacagcgg 240
 ggtcacccta agggctgaat ctcaacactt tgcaagtgtc aatgacgcca atccctgtgt 300
 agcttccatc ccttactttg ggttcattga tgaaatttgg gagcttaatt atgtgaaatt 360
 tacagtatgt gttttcaa at gt 382

<210> 17551
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 17551

ctcataagtg aaatcaggtg tagccatttt cttatatattc ttgatcgagg ccgtacccga 60
 atcaaataaa cattaaaaat gcagtatcta ggaagtgatc ctaggtcgtc tcccaatgag 120
 caatgggttaa ccaaacattc ataacagata gtaataaaat agttacgaat tggggggggg 180
 ggggggtgtc taactatggt gaaagaaatg atgtaatggg ctatgcggga aacgacctg 240
 cctaatacagg cactacattg attacaatca catcagacat gatattgcat 290

<210> 17552
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 17552

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 tctagctctt caaggaagct tctcaaggag gtgagcatag tttttaaatg gatgtgtgta 120
 gctaaactct agcttctcaa ggaagctttc tcaaagaagc ttctcacgga agctttctta 180
 agaaagcttc tcaaggaagt tttcttaaaa aagcttctca cggaagctac ctactctata 240
 aatagaagca tgtgtaacac ttgttgtaac ttgatgaat gaaagtctta tgagatacac 300
 ttcaaagttc cacttctttc cctcttttat tacttcaata tcatgctccc ggcttctgtc 360
 tatcttttcc tacattaaag cat 383

<210> 17553
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17553

ntgccttttag ggcttgtacc tcatcacttt cttctatgct ttaacctcat tgtctctcac 60
 agtcttttaga tttgggagcc aatccaatcc ttgtgttcgg actctcaacc acttatgata 120
 gccgccgatg atcccattac ggcttccccct aagctctctg tccttcacgc cgcaccccat 180

gccttgcgaa ctccctggag taccctcgcg ttgtggtcac tgaaaccccg tgcaatgaaa 240
 ggcgatgatgc ttctgtctga tggcactcct ctcatgaggt agccaagctg tcttatggcg 300
 aggacgggat tataattaat acaacccctt gttccatcaa gggaaccttt agacatcctt 360
 cgtatgaaga tagaatcccg attcttcctt ccttcttgga gaa 403

<210> 17554
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 17554

ttcttgcatac cagctcacga atggatgatt aacttgaaga agtctaagaa ccaattatat 60
 gtttgttgag gaaacatcat ccagagtctt gaatcattgg tgatcataag gaaaaagtcc 120
 agacaaggaa ctctttcaag catacaactc tactttttcga gatcggggccg aaacgcatag 180
 atgatgctat gtctaataa tactgggtca aagcaatgaa agataagttg gaccagtttc 240
 agaagaatga tgtctagaag cttgtagaac ttcccaaagg catatatgct attggagcaa 300
 agtgggtgtt cagaaacaag ctcgatgaaa tatgtaaggt tgtgagtgga acaaagctag 360
 gcttgtg 367

<210> 17555
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17555

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 cgattacaca gtgcaaactt tgaattcaaa ttttaatagc tattgtaaat cagttttggc 120
 cactggtaat cgattaccaa agagttaaatt tgttgaaaaa gactttttta cttaaaattc 180
 ttggccaaac cttttgctac ttcaattgga attcccttcc tatttaatat accctttcta 240
 aaactctaaa gattgtcttg atcatccatc ttgaatatca ttaatttctt tgtcttgaat 300
 aaagctttga gacgcatgtg atcctttggc atcatcaaaa catcagctta atcctttgtc 360
 tacaatctcc ccctttttga tgatgacaat ccctg 395

<210> 17556
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 17556

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 aagatgatga ctaagggtgat gacaaaaagc tcaaagatca atcaaataac aactcaagtg 120
 aatcaaagat caatcaaagc acaactcaag tgaatcaaga acaattcaag agttcaagat 180
 aagaatcaag aagaattcaa gacacaagaa gaaagtttag agtcaagaat caagaatcaa 240
 ggtttaagat ctcaagaatc aagagaagac ttaatcaaga taagtatgaa atttttttct 300
 caaaacatgt taaccaaaga gttattactc tctggtaatc gattaccaca ttgctgtaat 360
 cgattaccac tagctaaatt gtttt 385

<210> 17557
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17557

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 catgattttg ttagcattga atatgtcggt agtcaagata atgttggtcc gctgctgcca 120
 aatagaccat gtcaacgcta gccaccaaca cttccacctg ttgaccttta cagcctcagc 180
 caccctaaat atatgttgaa ggaaatgatg ttttgggttt tgcgggagag gaccacgca 240
 attcaccxaa gacatcgatt ccaccacag cggactgatt ttgctgcaat gaaaaaacgc 300
 atgacctgta ttctcctcca gattactgca aaacacgcaa ctcgatcatc ttaattccac 360
 ctgctgcttg tgaagggttg cccttgtagg tagtcgatct ctaagtaacc 410

<210> 17558
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 17558

agcttatcga taaaattaac ttgacagtgc accctggatt gataattgac cttttgttg 60

tcacettacc cgtatgacca acattttttac ttactcaaca taaaagcttc ttggaaccat 120
 ggataaccag attgtgtaac catattgttc accttatccg tataaccggc ttaatcaaca 180
 taaaagtaac tcatccgtgg caatgtgtga ccagcttctt taactcacct agagggatct 240
 gtggaaatgt ctaccacaaa tgttactaaa agattgaccg gtagaagtaa aactacatac 300
 gtagcattca ccgtcataca aattttgcac acattcttcc atcattagca aaagataata 360
 aaaaaaagggt tccagaaatt 380

<210> 17559
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 17559

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 ttcaaactga aaattttaat acttgcattgt ttcggcacga gtccattgta aaaataaaaa 120
 taaaaaactt aactttaata ctggaatcag ttgattttat attatgattt taaaaatatt 180
 aacaaaagaa gacaaacaac ttgttgatgt caaaacctgg gtctggtctt gactcgttgt 240
 aacagaagtg ccggcatgac tgagtcaaag aaaaacgaag tcaattaagt gggaaatcag 300
 aaaactttgt attcattcac atcttacatg atgaaatcct ccgcatcatt ctttgaattg 360
 acctcaaatt aatatgcatt gtaaatacca ttctagacgc atgcagttca agggttttgt 420
 g 421

<210> 17560
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 17560

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 aaacaaacaa atcaaacgta acaagacaat tatagttgct gtttgaatac ctcaccact 120
 caagtgtatc acacaattat ggctttttctc taatgaaaca ctcttgctt ttaccactct 180
 aattccccct gagttcttag gcaattcaag agattatggc cacaacaaag aacaattcac 240
 caatatgtgt aaggtaaggc tagacaagga aaaggttaac caagacaaag gctaacaatg 300

tttttacgca caaatgaagg aaataaaaatt cagaatttat gaattcaagt aacaatcctt 360
catgcaacca atatattacc tt 382

<210> 17561
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17561

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aagttatggc cgtttgtatt tgctcagagc ttccacgttc aatttcgagc gtctcgatat 120
gttacgggac tcaatcagac atccgggaaa aaagttattg tcgtttgagt tggctcagag 180
attcaacatt caatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240
aaaagttatt gtcgtttgaa ttggcttana gcttcaacag tcaatttcga gcgtcttgat 300
atgttactgc tcttgaatca gacatgcgag tgaaaagtta tgaccatttt aatttcttga 360
gagcttccgt tgttcaattt ctacgctctc gatatgttat gtgtctgaat cggacatgcg 420

<210> 17562
<211> 408
<212> DNA
<213> Glycine max

<400> 17562

ccgtgatact ctgagtcacc tgcagcatgc attctttgag ctaagtatct cttggaaata 60
aatttagatt gtattcattc ttgtctgaca aaatcacaaac tgcaaaactta accatcttgg 120
attttatcaa aactgaaat gaaggaacat ctttcagatt attgggttatg gagagattat 180
gatggaattg aatcattatt tgggttttgat gtgggtttgc caagcatttc tattttcacc 240
aaagtcgtga tctaatttca attaattggt ataggattga ggcccccttg gtaccgatca 300
tagaaaagga gaagacatat tggagaggaa aaaaatcatg tgcagagggt gtaccatatt 360
aacttgtgga ctgatgaat gcaaggatgt acaaaaatga tccaccat 408

<210> 17563
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17563

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agtgatgatg gtatgctggc tgagggtcttt gctgatgcac ccctgctgta atgtgccact 120
tttcaacccc tatagaattc tgtaatttta ggatttatca tttttttttt ccagagctgt 180
tctattattt cccttattcc acgtgaaaaa tttttgtga cttgtgattg aaacaaaaaa 240
ggatattgga agacacctga ctgttatgtc atcttttatt caaatgaatc atctccattt 300
tccccatctt ttatttggat tgcttaggtt tgtaaaggag gaacaattgc tcgttaatta 360
gcataacaac aattcangga agaggatggc ataaagcctc tacttgaata atttgta 417

<210> 17564
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17564

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tggtcataac ttttaactcg gatgtgcaat tcatgcgcat cacatataga gacgctaaaa 120
aatgaacaac ggaagctctc caaaagttaa aatggtcata agctttcaca ctgatgtccg 180
attcaggctt atattatata gagacgtca aaattaaaca tcgaatgctc tcgagaaatt 240
caaatggcca taactcttca ctcgatgta cgaatcaagc gcatcacata taccgacgct 300
cgaaagtga caacggaagc tcccgaaaaa ttcaaatggc cataactnta cacttgagg 360
tccgattcaa gcatataata tatcg 385

<210> 17565
<211> 416
<212> DNA
<213> Glycine max

<400> 17565

tcttttggac cttgaacagg caactaactc ctctttcaaa accatgctat gtgctcgca 60
ctggtccctt tcttcctttc gcaacttgag ttactattg ctaccccata gagctccgcg 120
aaatttggtc cggccatact ctctcttgcg agccctcttg gtctcttggt caagggctct 180

tgcggttaatt	gcattctctt	cccgtaaccc	ggcacactcc	ttccgaacgt	gtgtagcggc	240
caacttgaac	ttctccttgg	caagttttgc	ctttcctaac	tcgcttttga	gagcttggac	300
ttcttcgtcc	tcttcgggtg	cttcaaaact	ctctttgctg	acgactttta	acttggcgag	360
ccaatctaaa	cctcgtatat	gaactttcag	ccattcgtgg	taccaccaa	tgatgc	416

<210> 17566
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17566

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gtggatgacg	cctcctgtca	cctcttctcc	tttgtcttcc	gctgcatctc	catggtggat	120
aatcaccatt	aaaggacctc	attgaagctc	aaagatccag	cctccataga	agccccacaa	180
gcaagcttcc	atcaaagtgt	atgaatttta	aaatccaatc	ctacagtttc	ttgaattaat	240
taaattcggt	attattgttt	ctgtaattnt	atgtattttt	gacacactaa	attcgattat	300
atttggttatt	tcattccttt	agttattttc	gtcaattaaa	caaaccatg	atatttcgat	360
taaacttgta	ctta					374

<210> 17567
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17567

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ttgccagatt	gattgtgaag	gaatgcattg	accgtatccc	ggtgagagtg	tgatccttaa	120
attttgagag	aatgactat	catttaatac	tgatttttgc	atgaatcttt	gaagtatgga	180
ctgaatgcat	gaaattgagg	atgatgaagg	ccatgtttga	ttgggatagc	cacttagcca	240
cgtgtttgaa	tgatttatcc	tttgcaccta	atttgagctg	aatgaattat	tgattgattg	300
aaccctgagt	ctatagagtg	ttatctcttg	ctaccttgac	ttaggttgta	ggagagcatc	360
atccacagaa	agtggtgttc	anagcanatt	tgtc			394

<210> 17568
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 17568

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cttgccatga tgcttggaat agtttatcct ttgaagataa ccataaccat gatctgattt 60
ttaccaactc catcaccttt tcatggcctt tactgccatt attaaagata atggagtttc 120
tatgaagcca aataatccaa ctcatgtgac accacacaac ttcccatctt tgatttgcaa 180
ttgatccaac tctcagtata tagtgctata gatagtgatc ctgcggttgg ttatgttgag 240
ctcccatgac tcccaaccat ctaaaacaca aagaccacac ttctgtgtaa aaagtgaac 300
cgaggaagag atgttgtaca ctttccaaat gctgagagca caaggggcac aaatagttgt 360
tgtttggtcg tgccactttt 380
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<210> 17569
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 17569

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tgagatgagg aagtgttgaa gggatgaatct tctgctttt attgttgacc acagagtggg 60
acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcagggtggg gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180
tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa caagaccaca 240
aagcaaggag gcttgtgggtg gctggccagc tgtgaaactt gattgatatg tgagatatgg 300
tctctggtaa tcgattacca aggggtgggtg atcgattaca aggcttaaaa atgaaaacag 360
ggggctaaga tgggtctctgg taatcgatta ccaggggatg taatcgatta cca 413
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<210> 17570
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17570

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 cttaggcact tctctctctt tcgaatttgc ttggaaaaat tgtttccgtg aagaaaatcc 120
 aagccgagac gcttccgaat cgtttccgta acgtttccgt gaggaatttc gcgaagggtt 180
 cgactgttct tcgacgttct tcattcgttc ttcacgttcc ttcaatcttc aacgggtaag 240
 tacctcgaac caagcttttc gattcattct atgtaccctg ggtgggtccac attgtgtttc 300
 atgtattttt attctcgttt catttacttt ntataccccc ttttgacgtg cttaagccat 360
 tntatttaag tcatttctcg c 381

<210> 17571
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 17571

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 gttggacact agtgatcgga gacttatatc tactttttgag gagaggtaac ataaggaaac 120
 tagtagtttc catcttccag taggagaagt gaccatcacc ctggatgatg tggcatcggt 180
 gctacatttg cccattatag gcgcattcca tagctttgag gattttcttg tggatgaagt 240
 cgttttcctg ttagtggaat ttcttgaagt tagttcagaa gaagctagag ctgagacagt 300
 acaatgtcat gggacatatg ttaggatatc ctgggttgag acatttatcg tagcaaatgt 360
 ggcgcaggac agtggattgt aatagctcga gcatatttgt tgtatctagt ag 412

<210> 17572
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17572

tatcttctcc tttcatggct tatcctctag tagatggcgc ctcatctcac ctcttatacct 60
 ttatctttcg ctgcaactcc atggccgaaa atcaccattg aaggacctta ttgaagctca 120
 aagacccaaa ctocatagaa gcttcacaag aaagcttcca tcaatattat acttagacta 180
 tcctaaaaaa tgatagcttt ttcaattgga aacccaagat tgctaaccag acctttaagt 240
 cagatcccat cctttattgc ttctattaga gcatgcattc tacctttgta gtggataaaa 300

ccacaatggg ctaaagagtt tccttcacac tatcaagaga gttgccaatg atgaatgcat 360
accttgtcat agttctcctt g 381

<210> 17573
<211> 413
<212> DNA
<213> Glycine max

<400> 17573

ttgaaagcta ttacggtgga aataagttta tctatttgat gttatcagcg agactagcag 60
gattgtgtgt tttgtaatcc gtgtctttcc aaagcagcca atgggggacat cattatacat 120
ttagtacatt acccactttt aatttttaaat tgggtccaga tgtggataag aacaactaaa 180
ctaagtcatt taatgtattg cttttattta atgtatttaa attattagtt attgatttga 240
gaaaaaatat tatatcttac taacaaattt aatgtggata gcatagactg ccagtttaaa 300
agtttttaca ttgtcaatga tcaattaaaa atattctttc gcatgacttt caaggtagtt 360
atcatcaaaa caaacaact tatcatatat atatatatat atatatatat ata 413

<210> 17574
<211> 381
<212> DNA
<213> Glycine max

<400> 17574

ttcttaaatg agtattttca gatctgtctt tctttttgct ctcttcttct tgcacacaat 60
gaggtgtaaa ctcatgtatg gaccatttgt cttcttgagt gttataactc actttgaatt 120
gcccaaagtg tgtagaaagt gagatcaaaa ctaaatacac gagcaggtct tcaccaagct 180
ctagcttaag tgctttcagt tttgatgcca agttagacat tttcattgtg tactccctta 240
tataactttc cccctctttt tttaacaaaa aaaataacat aaaaaaaaca aaaactgcat 300
gcacaaaaac ttccctatat atattatgaa cattagccat gaagagaagt gattcacaaa 360
tccaaataac gattccaaaa a 381

<210> 17575
<211> 411
<212> DNA
<213> Glycine max

<400> 17575

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tgagaaagtc cttttgattc agttttatact tttctgactt tatggcatga gatgaaattc 60
aaagattgga cctcttgcta gttgttatta atgaatagct taaacacttg tgcttgagtg 120
aaacagtagc cgtgagactg tgggtttaagc taattttctt gatatctgtc ttatgattag 180
ctccatctaa ttgttcaaat tacattttat tcttctcttt ggataactgc ataccttggtg 240
aaaggcaagt gatgaggggca ttttactcca ttctcttatc atgcaatcag taacttttgt 300
agcatacacc tttgtacata gtcactgcat gttgttggtca cttgaggaca agtgaattgt 360
tctctttttg cttgaggaca agcaaactg taaatattgg ggagttgtta g 411

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<210> 17576
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 17576

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agccttcatt ctactgcttg catgcaatga atatttctcc ctaacaagat caattttcaa 120
atcgcaacgg tgaaaatatg cagaaatgaa tttcgacca ggtgtcccaa tttcacaatg 180
atccaacggt taatgagtct gggattatag ttttactagg acagggtttg ggtctctgca 240
ggaaaagaaa aagttaagat gagaaggga tttctctcac ctccaactct gattcgcaat 300
ttccatcggt gagaatactt gaatatgagc tgcaaacttg gtgctcaaat ttcacaacaa 360
tccaacgatt aacgagt 377

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<210> 17577
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17577

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tcatgcaacc caataaatta gcatgtcttt tcctctgttg ngatatataat gaccatttgt 60
gctgatatga aaacacttcc aagtacaaaa ttgattgatt tataaagaaa gaattaacac 120
atgtactata atttccatac attcatgcta cctcgagtca tgtttttttc tataaccact 180
tgaaataaat tgtaactttt cttttttaaat atcaaagtct tcaattaagt agtttttcaa 240

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ataaagcaga agttatgtaa aagtatcata ttaatgtcct acgttggtct gaacttatgt 300
 acaaattaat tttttacaca ctcaaataat gcacaatcaa cacaaaatca ccattgaccc 360
 atacgaatng caaatctata atgactntac ggattcataa tatgtatca 409

<210> 17578
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17578

ttcttagccc aagagaggat ggaccttttc aggtcttgga gaggatcaat aataatgcct 60
 ataggttgga cctcccaaga gagtatggag tcagcaccac ttttaatat tctgatttaa 120
 ttccttttgc aggtggagct gatatagagg aggaggaacc aacagatttg aggtcaaadc 180
 ctcttcaagg gggaggggat gatgcaatcc tccctaggaa aggaccagtt accagagcca 240
 tgagcaagag gctccaagag gattgggtta gagttgataa agaaggcctt anggttctca 300
 tgaaccttan ggtagatttt tgagcccatg ggccaagatt gngtccactc ttctttgtaa 360
 atagtagaat 370

<210> 17579
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17579

ntgattgaat gatccttgca ttcngnacct atgaatactc accttaccac agaaaaactc 60
 tagggctaag gccaaacttat atagctttta aaaccggaaa gggttacott attctcggtg 120
 ccgaaatgcc aaggccgtcc tccacttacc aatttcccaa cttgaaatca agaaggcatg 180
 ggcgtaccac atcccatgta ctcggaacat catcttcgta tatcgcgacc acttgacott 240
 cgtctcccag acccgcgctt ataaagcttc tacttatgtg gcagggcggg ctctcttcac 300
 ttccttgtct caaacgcgag ctttgaccac cgctcttcct tcccgcgatg cttctcttta 360
 tatctgcctg agtgggctta tagcctaaag catacttccc acgatttcct ttggcattta 420
 tcaagctagt tatgccggcc ntggcttttg ctan 454

<210> 17580
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17580

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 tttgcgacaa cgtgggtccat acatctcacc gacacatgta gagccttggt gtgtcctctc 120
 ccctcaacgg gaatctcttc ttccgcaaac gcgatataat tgttgggtggg tatatgatta 180
 acgatgcctt caaaaccctc cactgagata tcatgtgcta catgggcata gttaaggacc 240
 ttcatcaaca acgcacgatg aggctcggag tttatgagta gttcaagcaa agagatcctt 300
 gctggagtct tattcagttg ctcaactacc ttanactcgc tttgttggat gaggcggagg 360
 aactcatggg cctct 375

<210> 17581
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 17581

tagtttaaca taaggatcag aagttcccag caaattcatg tttaaaagct tttgtgcacg 60
 aacctcattc gcatgttata tcctcacaag cttctttatt gccaccctat aaaagatgtg 120
 aacaaagcat cagacatctt catagagcaa acattgttat tttaaactta aactttgtca 180
 attcatagta aatttttaac aatagtgaag ttatgtttta aataataata tagttctagt 240
 aagatatggg tgtttgcgtg tgtcggtaag tgtaccgatt cgcacaagta gtataaaacg 300
 gtaagaccga ctatcgtatc ttcagagaat ttgtttcacc tagaccatgt acattcgata 360
 tgcaagcact tatacggatt aaaataaggc aaatagtgag ttctgtact 409

<210> 17582
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 17582

agcttgagtg agcgaaagag agagaggcac aggcttggtg ctcgtgtgct gaagtgtgtg 60
taagctctac atgtgagcga atatgttgag gatttgatgg aacctgctat ttataggagt 120
ggagcgtagc tgtgggtccc tgtttgtagg ggttggtata gtctttgcag ataattaccg 180
acttatagat aatacccgag agcttgtaca taatgttaga gataaattgt agcttataga 240
taaaagctag aagataattg taccttgtag atagtgtgtg gctttataga taattaacta 300
cctaccaata gataaagata ttcaaattt aatatgttag agataacctt gtagtt 356

<210> 17583
<211> 418
<212> DNA
<213> Glycine max

<400> 17583

taatcatgct aaaagatcaa gaaactaggg gatttttgtt cttttttttt acatcatatg 60
gtgaaactaa aaagatacta ggagatgcta aagaccaata aaaataaaaa ataaaaaaca 120
aaaaacaatt caacaaagca agattcatga ttgatgaatg aaacttatat actcaattgt 180
tggatattat aacatacaat atatcctaca aaatttgtaa tatcttaggt taaaagtaat 240
tatggagatg caagtcaaga gtttgtaggg gacgactacc atcttgga gatacaatct 300
cagagataaa ttcaaataaa agatgggtgc tgaaatcaat ggaatgtaaa gtaagattat 360
agaagaattt cataaatcct tccattgttt tgacaagacg catctctaag aaattttt 418

<210> 17584
<211> 365
<212> DNA
<213> Glycine max

<400> 17584

tgcttgtaga aaatactctt aaccagagca tccaactggt aaaagcaaatt tttcacagag 60
agagtttcaa taaaatctta tgcattccaa gataagatag aagcaactaa aaataaacia 120
gttataatag aaattagagt aaaaacacaa tgtttatact agttcactca acttgagcta 180
catctagttc tcctttatga caccatcaag tgttccacta atcaaattga ttacaaatga 240
gtttttactt tgccactctt gggtacaaca agtattttct atgccacttc tagcttacc 300
ttaatctctt cccgagatta agaacaccca agtattcttt gatcactaag gaacttctga 360

ctttt 365

<210> 17585
<211> 416
<212> DNA
<213> Glycine max

<400> 17585

ttgagccaaa atcctgactc accataaacc ttgttccatg gtgagaatgt caatccttac 60
cctcggaaagc aaaaaagaaa agaaggaaaa tttccaatca aagagaaagc aaaaaagaaa 120
gaagggaaat tccaatcaa agaatgggag aaaaaagaaa aaaaaaagaa gaagaagaag 180
gaaagaaagc tcctgatcaa ggatcgaaag aaaacataag aaatgtgcag agaggtcttt 240
ggaccagacg atatctgaac aatacagaat tgtcaccaaa tgaacaaaag atagaaaagg 300
aaaccatgac ctaaaagtgg tcttctccct ttcattatca accaaaatcc tgtgcgctag 360
cgactttttc gccccgcact atacaaaaat agaaaaggaa aaagccaacc aaaaat 416

<210> 17586
<211> 367
<212> DNA
<213> Glycine max

<400> 17586

ttctttacta tatccaagca attcaattgc caaacatcat gaactaccct aaaccaacaa 60
aacagggcag aggcagaaaa ctctgcccaa aacacattca catattatca actttcctta 120
ctcaaatacc ccagtaacat tctcttcatt ccgatttggt aaccgttgga tcgacttgaa 180
acttttactg gatgttcta gtacataaat atacattttg accgttggga tctgctagaa 240
aatgtccaga acccaatatg tactaccttt ccataacca acaatacaca tgcattttct 300
gcacatgaac aaaaattctg ctatacaaat ttgacagcaa ttttcagcat aatagggcag 360
atttcga 367

<210> 17587
<211> 390
<212> DNA
<213> Glycine max

<400> 17587

acttgtgcta ttcattctttt cattctcttc tccctttgcc aaaaagaatt ctccaaggac 60
 taaccgcctg aattcttttt gtatctctct tctccctttt ccaaaagaac aaaggactaa 120
 ccgcctgaat tcttttgtgt ctcccttctc ccttgtcaaa gaattcaaaa tgacacagtc 180
 taagaattct tttgatactt cccattccct tatacaaaaag tgttcaaagg actaaccgcc 240
 tgagaattct tttgtatccc tattcacaaa gtatcaaagg tttaacagcc tgagatattt 300
 gtcttaacac attggagggt acgtccttta tggtaacaagt aatgggtaca tctacttggg 360
 tttgactgag aacaagagag ggtacatctc 390

<210> 17588
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17588

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 ctctgtgcta aggtgaggga gcaccantg aagaacaaca aagtcattgt caagttgaac 120
 caaatggaac acaagtgcta actgaagtga acaccgaaca tgataattga acacatgaaa 180
 tggaaattga tgcagtgatt aatctgctaa cacaagctag ccaaacaat ccaaacaagg 240
 taaaatctat accattctga ggtaaaagct attgtgtatt tcactttcat tttcagtctt 300
 taatggtccc tttaccagaa ataatcaaac cttgtctcaa agaaaactgg tcttgcattt 360
 gcatctacta ataattctg 379

<210> 17589
 <211> 400
 <212> DNA
 <213> Glycine max
 <400> 17589

tagcgagaca acaacttttg caccttcata attttcttct ttttacctga aattgagggtg 60
 aaatgtacat tatattcata aggaaggctt ctaccgagca catatgaaaa ctaaactaga 120
 aatatttaca atcctaccaa aaataaccat aaatttggag atttatatac attgtgtaaa 180
 agttctctat acaaaagtta gttgtataag acgactaaca aacttcccca aatttacagt 240
 tttgcttgtc ctcaagcaaa gaaagaatag ctcaattgtc ctcaagtgac aaaatcacag 300

tgggttattca caaagtgttt gctccaaaga atttaattac atgaaatgaa tggcatacga 360
 ttcttcaatc atagctactc acaagacatg cagcttttca 400

<210> 17590
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17590

ttcttttatt tttgataaga agcttgntgc ataattgaat ctttattgaa atcactgctc 60
 ttaaactttc taatttttct tctttcccg c tatcactgat ggatttttct gtgattattg 120
 tgtagattat gataatatgt tttttcaaat gtattttgtt atttggcatc aatttgtgga 180
 aaaattaggg cctgattgca tactaaatac tctgataata attctctcca gtctctagtc 240
 tctacaactt gctttgtctt ttgaaatgat tcttgtgatt ggagggttat atggagtggg 300
 ggcacatgat gaaatgct 318

<210> 17591
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17591

tgcattgagat gcagggtatt ttctcacaaa tattattcat tactccaagg ttttccatag 60
 ttatgacttt ggcaagtatt atttgggtact ccaagggtgtt ttttaccaag caatatacac 120
 acacaactta ccttgcaaga ataacctatg agcaactgaa gttataaaaa tagcatgagc 180
 tctctgccaa tttgcacact gaagaaattg gtcaagggtt tttgagtgat cccattata 240
 attataataa attgcctgca ccgccataac aaaatcattc aaacaacaat aagagtcatt 300
 taaagaataa tacaatactt tgcaachatt ccagcattag caagcccatt aatcagtaaa 360
 gaacaccatg acaacaattt aattcagttt agtcataaat tgatcata 408

<210> 17592
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 17592

ttctttttttt tcccactcat acaatagcgt ccggaccatt cataccaccc taacccccaaa 60
aaccaacaaa aaccacatca aaatcatgat aatgaaaatg gaagatgata ggggaaatat 120
aagagtttct taccactaaa ctagccctcc aactcaaata tagttttgct acatggtccc 180
ttgagcaaag gaattcaagg tctcaatctc tctcgtgaaa cgttgtcatt gagaggaaga 240
atatcgtaca atgaaagggg tcaccatcat cttaattatg tcaaattaat taaaatcact 300
taatctgaca ttatgaaaaa tagagtgtta catgaaaata tatttaaatt taaaattcca 360
agatcacatt ttgactgtta aaa 383

<210> 17593

<211> 337

<212> DNA

<213> Glycine max

<400> 17593

gtgtgatctt ttttgtgagt gaacgactag ctgtgagtaa tgatctttgc atgaatctct 60
aaattttaga acgatatgta taatgaggac atgatgaagg ccatgattgc acatacacia 120
gctcttttga ccatataact taccttcaat aatacttgca tcttttgctc cttacatca 180
gcacacacia caaataagtt gtatgttaaa ataaaatata aagaaagaat agaataagtg 240
tggtgtttca ataagggtcaa aagcaacttg agaaaaaaaa tattgagaag gctacgtgta 300
taatacaaga taagaccatt cggataagtc aaggatt 337

<210> 17594

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17594

ttctngttca taacagaatc tatacattgc agtccactca attcatacaa tttctcatc 60
aatcaatca caacacttca tttcatacaa aacaaaccac tgaatatcat attcaatcaa 120
ttcactgctc aaacatgctt ttgtacaagc tactactact aacaaaatac tgaaatttaa 180
agactgaaaa ttaaataatt gaaacataat gcataaaata aataaactaa taaaaataaa 240

ttgctcataa cgcaaaaaga taaagatcct gtcaatcctc ttgtggttga tcctttgcat 300
gctcattaag atccaacact ggagcaactt gtggatcctg tgagatgggc tactcttgct 360
ccaatgctgg tgcatatggc tg 382

<210> 17595
<211> 411
<212> DNA
<213> Glycine max

<400> 17595

tccttttagt gcgtcatgtc taaaaccaag ttcattggtg gtacgagcct ttgaccgtag 60
tgggcgggaa gtgatggggg aaatccacat ccccatcag ataggccctt acacttgcaa 120
tgtggttttt caagtgatgg acataaatcc cgcctacagt tgccctcttg ggagaccttg 180
gattcatgca ctgggagtggt tccctttgac gcttcaccag aaattgaagt tcgcggatgg 240
tggaacttttg gtgatagtgt cacgcgaaga ggatatgttg gtgagctgcc cctcctccgc 300
accatatgta gaagcaccaa aagaatcatt ggaaacagct ttccaatcct tcgaggtggt 360
gagttgtgcc tctgtggaaa cgagcccgtt gctaccttct ctctctaata c 411

<210> 17596
<211> 335
<212> DNA
<213> Glycine max

<400> 17596

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acttgggtgct gatcatcctg ctggagatat gacattgttg gaaactggcg aacctgtgta 120
ttctccaatc actcagggtt gataaatatt ttttttctg tataatcact atttaaaaat 180
actcttgtag ttgagaactt tgggactggt tcatgtatga aggacctttg cttacagaaa 240
atctaatacat ggaaacagag gagtctgtgc tgcggacagg gaggtctgta tgctaactga 300
gattcatcca tgacacaatc tggtatctta aatct 335

<210> 17597
<211> 391
<212> DNA
<213> Glycine max

<400> 17597

agcttattaa tcaattgcat aagaaagcct tgataatatt ataatagtaa gcaattgagc 60
atatacctg gaccagaatt cacatcactg aatatgtact tttgcatctc tttccctttg 120
caggtagat tgcattgtga ggtgccatca ttggtatgtg aggattgtta caagagggtc 180
atagcatagt ttatgaagca agcaaagggtg ctagctatgg ggttacactt gctttatata 240
attatataat attataattg aatgtctttc tcatattctg gctcaaagaa aatatatgca 300
tcaaattatt gttgtctgtg aatatgggtac actttatatt ttcagtcagtg aggatttcca 360
gtttctaaat ttgaaactat aacctctcaa t 391

<210> 17598

<211> 357

<212> DNA

<213> Glycine max

<400> 17598

ttctttaga actccccaaa gtaagatcta ctcttggagc aaagtgggtg ttcaaaagct 60
agacaaaata ggtaagggtg tgaggaacaa tgctagactt gtgaccaaag gttactcaca 120
ataggaagggt atacattata ttgaaacttt tgctcctgtt gctcatctag aggcaatatg 180
cattatacta tcctttgttg ctcatcatgg tatgatgtgg tatcaaatac acgtaaaaag 240
cactttcttc aatggactta tcaagaagtt tatgtggaac aacccctgc gtttgagagt 300
tctatctacc ctcatcatgt tttcaaaatt aataaagctt tgtatgtgtt aaagcaa 357

<210> 17599

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17599

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ccgggggggtc aagatatgta ataataatag ttttttgta tacatgccta tgcttctaga 120
tggtgaatat ttaatggcta atcacttgag tgttgagtgt gttcacttgg aggcattgtg 180
tggataccgt gatgtgtcat ctgtcagtag ttgagccac atgtactgat attaatagga 240
gggatttcat ggaatcttga aaaacaaaat tcctcatttt ttaatatgtg cgtactaatt 300

aaattctgac tcaaaatata agtatctaaa attaactctt ttttatgata actatcttgg 360
acagtgaata atagataac ctaaccgttt 390

<210> 17600
<211> 375
<212> DNA
<213> Glycine max

<400> 17600

tcaatcttat catgtctagt tttcaatgat ggatcatcaa atgacatata atttccatat 60
cattcccagt ttacaaaata gatagtaaag gtcaaaacag aacatctagc aaaaggggtca 120
ttatgtagga attatttcaa attcatttct cactcaaatt gaacgtattt aaatggattc 180
atatgcctca aatataattt cataatataa ttttactttt agcatgcaaa gtctcagaca 240
ttcctagcat tcaatttcat gagacatgtc acaaccgaga ttttcacaaa caccttgtgt 300
gcatgatttt taatatcaaa caacaaatca atcatcacac acacacacac acacacacac 360
acacacatac acaca 375

<210> 17601
<211> 400
<212> DNA
<213> Glycine max

<400> 17601

aactcagctt accctatatg gttaaaaggt gctattgtta gcctatctct atgttcccaa 60
cctagaagtg atatttcca aaaagctata aacttcgggt gagggtctct gatggaggtg 120
aagcataaca tccatcttct gaatcataaa agactcaaaa agactccatt gaggtgcaaa 180
ctcatgttga gcttcagctt caacatcttc ttccatcttt ttagtgtttc tagcaacagg 240
ctctctaggc tcatcttgat aatcaggtat caagatgcta taacataagg aaactcataa 300
tccaccagac ggtgacactt caacataatg ctacaatcga aaatacccaa ttcatcttga 360
tacctgattt caaaccataa acaatctaca tatcatcatc 400

<210> 17602
<211> 337
<212> DNA
<213> Glycine max

<400> 17602

agtatagctt atagatcaac ctttgtcatt ttattccata gatcaacctt tttcatttta 60
ttccaactct attacttgcc tttccgcact tagcttttct ttttcttaaa tagcaacaca 120
cacactttta tattatactt atagtttttt tttaaatact tgttgcttat tagatgactg 180
tgtgtagctc ttttcttacc attacaagct ttgaccccat aattaccccc aatttgggca 240
aatttgcttt gaaccaaagt tccttttatg aatgatgctt tcctacaacc taagacaaag 300
gtaaaggata taaactatac agaacttatg ttcaatc 337

<210> 17603

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17603

tattacacca aattcaataa gatattcata tatttatagt taccctaaaa ttagtgtgca 60
caataattac atgtcatttn taacagatca agcattgact aaatgactta ctttaactgg 120
agtccattta gcagtttcct tggacttaca tccttgatta ttgttcaatc ctttcaaagc 180
attggttaag agaaacatgc atgcatattg tacaattaan atattgatgt caaataactaa 240
tgataaagta aatgtctaac aaattacaac taacatgtta ataattcctt tcaagtagtt 300
gggtgggctta ttgtgcaagg aaccatacca gacgacaaga ttgtccttat gacatataat 360
gacaaactgc caatgttcac tgcattggag agcattaagt tattatat 408

<210> 17604

<211> 325

<212> DNA

<213> Glycine max

<400> 17604

ttacaataca ctggccgtca gtttacaacg ttatgactgg gaaaacccta gcggtactcc 60
aacataatac tccttgacga cacataccct ctatcgacaa actggctgta atatgcgaat 120
aggccccgac aagatcgccc ttcccaacag ttgcgcatcc tgaatgggtga atggagcctg 180
atgctgtatt acatccttac gcatgtgtgc gagatttcac actgaatatg gtgcactatc 240

agtacaatct gatctgagcc gcaagttaat ccacccctaa atccgcaacc ccgctgacgc 300
aactcttcgg tcagctgaat catca 325

<210> 17605
<211> 385
<212> DNA
<213> Glycine max

<400> 17605

agctttgagt gaaaaacata ctagaagttg tcaactgcaa agagagactg acaacgagag 60
tgagacctag attgagagca agagttagac caagagtgac agtgctgaca gtagttttag 120
caccacaaga gtgatgagag tgagagtgag agtgatagtg agaaaggggt cgagggagta 180
aggttgcaaa gtgaggggagc tcgaggggtg agacaccaga tcaattttta taaaaagacc 240
caacaacatc aattttttaa ccaaccaat gttatcaatg cattccaaaa catcaatttt 300
acgaaaactg atgttgcgaa caaaaactca acattgggtt ttagaaaacc gacgttaaca 360
ttatactagc aacatcgatt ttctg 385

<210> 17606
<211> 412
<212> DNA
<213> Glycine max

<400> 17606

tattaagagg aatggctaata cagatcacag acattgaagt tgacctatgt gttgatatcc 60
ttaaattggca aaaaagaaga gctgttttag tctgggaag aggtcttata tgggacaaac 120
attccacaca agataagggtg agtctttaac tcttgagcct tttcaaatta agtctttaac 180
ttggattttg tttcttatga gacaattttt ttttattcaa aaggagaaaa gaatgaaatg 240
gatatttgca aggctaaaga gcaagagatt tccttcaatt aaatatcccc taccctcaaa 300
aggaacaaca ctaagtgagg cagagcaaga acagagcaag catgctttaa cagtgggtcat 360
tgccctagca gcagttgctg aagctgctgt tactgctgct catcgccctca ct 412

<210> 17607
<211> 376
<212> DNA
<213> Glycine max

<400> 17607

atcttgtaat cgattacaca agtcttgtaa tcgattacca gaggggattt ttagaaaata 60
atttccaaga gtcacatcta ttcaaatggt ttatgaatgg ccatcaaaag tgacttgga 120
acacgaattt aaagagagtt ttcattgccc aaacagtttt atgctctcaa aagattaaga 180
gtttttctga actgaaatgt cttatcctct caaaaagatt ccttggtcaa ccacttgc 240
attcaataag gaattttgat tgatcttcat tgtacaatct atctctttta agagagattt 300
cttcttctct tcttcttatt tctgacacaa gatttaagag accgtgggtc tcttggtgta 360
gagaattctt gaacac 376

<210> 17608

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17608

tgcccgttag aaagccaccg ctcatgcaca gagaatggta ggggcaaatt gggaccgact 60
cttagcaaac aaagaaggag tgtctgtcaa ctggttccct tgatggaaag aaggaagaac 120
cggggttctt atttcgtgcg gaggatttct gaatgttccc ttgatgggga caaggggttg 180
catcagttac aatcccgttc ttgctataag gcaacttggc taccatga gaggggcacc 240
actagaggaa gagctgcgc ctgtcatttc acaaggttta aataagacca acatggagac 300
acttcagaag tttcgcaagg tatgagaggt ggtgcaaaag aaggacaaag aactcaagg 360
cagtaacaat atgcccatcg gtggctaccg taagtggtna aaagcccaca tg 412

<210> 17609

<211> 364

<212> DNA

<213> Glycine max

<400> 17609

ttctttcatt gttcaattcc cagcgtcacg atatattatg cccctgaatc ggacctccga 60
gtgaaaagat atgaccattt gaattgctca agagcttcca ttgatcaatt tcgagcgtct 120
cgatatatta tgcgccataa tccgacctgc gagtaagaat ttatgacctt ttgaattgct 180
cgagagcatt cgttgatcaa tttcaagcgt ctgatatat tatgtgcctg aatcgacct 240

ccgagtggga acgtatgacc atttgaattt ctcgagagct tccattactt agtctctagc 300
atctcgatgt attatgtgct ctaatcggac tttcgagtga aacgttttga cgcattcgaa 360
tttc 364

<210> 17610
<211> 372
<212> DNA
<213> Glycine max

<400> 17610

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gggatcttct cgaaattcgg ccttaaaactt cacaagacac ttgtcaatca tctgatcatt 120
gggatctttg agaagatgtc tggagtgtgc tagaagcctc ttaatgaagc ttctagagaa 180
aactacatga agctgcctcg gtataaacgc tgcccagcct tcgttaaccg ttggatcttc 240
tcgaaatttg gtttgcaact tcacaagaca ctttaccatg atttaaccgt tggatctttt 300
gacacaatat ctggagtgtg ctagaagcct ccgtaccoga gagcatctct tatttaagca 360
tgtcagcctt tg 372

<210> 17611
<211> 350
<212> DNA
<213> Glycine max

<400> 17611

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aatttttcta gagcttccgc tgctcaattt cgagcgtctc gatataattat actcctgaat 120
cggacctccg agtgaaaagt taagaccatt tgaatttctc gagagcttcc gttgttcaat 180
cttgagcgtc tcgatataatt atgcgcctga gtcggacctc cgagtggcga gttatgaaca 240
tttgaatctc tcgagagcct ccgttgctca ttttcgaccg ttttcatata ttatactcct 300
gaatcggacc tccattgaaa agtttgacca tttgaattct ccagagcttc 350

<210> 17612
<211> 385
<212> DNA
<213> Glycine max

<400> 17612

taaagtatgc ccgagtcatt catccctatg agatgttggt gaagtattgg cgatcagaat 60
tgccattcct tggattataa ggttgaacca agctcatgct tttacaaaaa ggttcatcaa 120
gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180
acatcactgc ttcacttact gccaaacata tttaggattg ttgatgtcct tgttacttcc 240
agattcactt tgacaaagat gtcattggacc atgttgaaaa tctaaactga ttcaacccca 300
tattcctgtgt aaaaattcgc aatacttcaa ctgtacacca ttcgcataca tccatgcttt 360
tattggttgc atagtcattg cattc 385

<210> 17613

<211> 290

<212> DNA

<213> Glycine max

<400> 17613

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atacaagggg gaggggtattt tcaccacctc tatcagttgg ataggtaata gatcatatag 120
caattgaagc cgggtacaaat aactgtcgaa agagaccgga tagaagacca cgacaaccta 180
ccggcggtga accctacggg aagatggatc ctttccaaca acctatgtga tggaattaga 240
aaagaggaga aaactgtggg gttacggtaa aggcaacacc cttgaccctc 290

<210> 17614

<211> 302

<212> DNA

<213> Glycine max

<400> 17614

tattctgtaa aagccggcga aacactggaa cggaacgaca gagatcgaca gagaggctga 60
gagcgatagc gaaagattga ggaacagagc tatcgacctt gcacacgaga aagtgcctg 120
ctagatcgcc acaaaagaga caatcccag gacataaac aagagaggca gggaatacta 180
ctctcaaaca gcggagctaa ttgtgtggac atgcaccaat acacacccca tagacatgct 240
attgctcatt caacagccca cgcaatcagt gcctaacaag cagcaaattt actgaaacgg 300
ac 302

<210> 17615
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 17615

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cttccccgtg ttaccgtctt tgagatatat ttagttagcg gtcaaccaca ttgcaattat   60
aagcgtatatt ttggaagaag aaaaaatggt tttctaaata aaaatattat ctctcataca  120
cgagtgataa ataacacaag ttcttggtcc cctttttatt tatattgCGT gactgCGact  180
tagccgcaca tgcaacagat aaggaagagc aacgtcgtgc cttctctttt caatactgct  240
tggattcaga aaacacttag agtgcaaata cttcctgtgt tggagggagt ggaggtttca  300
cctgattagc agtgtaggtt cggagaaaca gccagaaatg aaacacagtg aatggaaata  360
tgacaaagaa aaata                                                    375
```

<210> 17616
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 17616

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ttcttgctct aaattttacat tgatgtttgt atttatggga ggaggttata tgccattttt   60
gctttaagag taacgtccca ctggtaaaac taactttcca aatgtttgcc ttCGcatgaa  120
tggccccgag gaagcttgcc tcaaagaggt ccaggaagga caaggCGggc gaaggaacta  180
gttccgcccc ggagtacgac agtcacCGct ttatgagCGt tGTacaccag cagCGcttCG  240
aagccatcaa gggatggTCg tttctcCGg agCGacCGct tcagcttatg gacgacgagt  300
atactgattt cccgaggaaa tatggCGcCG gctgtgggca ccacttgTTa ctcccatggc  360
caagtttgat                                                            370
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<210> 17617
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17617

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 ttttcgtctt acagacagca aaaaagaatg tttatacgga taaccactcg ggtttttccg 120
 cccgtcagcg tgactcaaat gtcagtatga caaatcttgt gagcgcggaa gatgacgtaa 180
 atctccgcgt gtcaaagggc ttgtcggccg cgattgacga aggacgtaga agacgtcgtt 240
 agtctctgcy tgctatcagg ctttacgtct tactgacacc aaaaaagaat gtttatacgg 300
 ataaccactc ggggtatttcc gcccgttagc gtgactcaaa tgtcagtatg acagatcttg 360
 tgagcgcgga ntatgacgta aatctctgcy tgtcaacggg c 401

<210> 17618
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 17618

tcaattttgc agcgcatttc tgatgaactt taccagaaat tgcggtagga ggtcccagga 60
 ctgggaaact cccagtgaac ggttctgcct ttcttacaac tgaacgatca tccatatcaa 120
 gccttgctat aagttcacca gcctgcaaaa ggtgatacaa ttttattatc tttttcaatt 180
 tcaacaattg tacttactat gtggaataga atgctatata cctgcattgc ttgaccttca 240
 gacattttga aatgaataat ccataaaca tgcgaaagaa gaggcattgca cattttcatg 300
 acctcaactt catcatcagg tgtgtcatca tcaacatgac tgtcatctgc aaccaaatat 360
 ttcataagct tgcat 375

<210> 17619
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17619

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 ggtaatcgat taccaaaaca ttgtaatcga ttacagcttt ttgaaaataa ttggaacggt 120
 gtaaattcag tttgaaaact ttttcaaact cattttgcta ctggtaatcg attacaacaa 180
 tctggtaatc gattaccaga gagtaaaaat tctttggtaa aggggttttt caaaaactca 240
 tgtgctattc aaagttttga aaaacttttt aatacttata ttgatagagt cttctcttta 300

ttctagaatc ttgatcttga tttttgagac tctgaacctt gaatcttgat acttgtctct 360
agactttctt cttgagtc 378

<210> 17620
<211> 557
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17620

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aaannnaaaa aaanaaggag tanacttgag gcatggntgc aanancncc cntaancnag 120
ctcgcgcccc ggacgaccac gagagacaaa cagcaagcat gcattttctgt tctattcaaa 180
aatccgcgag cgaaggcggg ctagaccttg aactgoggac acgaaaactg cacacaacaa 240
gcgcgggcca gaagaggaag accaccaccg caagaacaca ctcaagacac ggatactcga 300
agtagaagac gaatagatca ccggcccatg acacaaagaa aggaccacaa cgcaatgttg 360
agacgcagcc agagtggaaa gcggccaatc agaccgcaac caccacacca acacagcaag 420
gagactcctg caggaaacgc ccgtacgccc acgcacgaaa acaaacagga cagcccccat 480
gaagccgaat acaccggaac aacgaccacc cccaagactg cgcagacaac caaataccca 540
agggccaccc cacagcc 557

<210> 17621
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17621

accccaaaca tatattcgat ggatacgaat gcacagactg acacaaaacc cagggaaatg 60
tgatctcgac tcaggaaata aaaaccagct ncatcagatc catcgatacc actgggtgtga 120
ttttaaatgt tagaaccaga agacagtgc cctatagcta accgaccacg caactgtcgg 180
atgaaattca ctacaggcag ccctggaacg ttacaagtaa tcaattacgg tatcaatgta 240
tgcaaccgaa agatgatgct gatgctaacc cattgataag gagataagat gagtcggcgg 300
ttgttgggtca actgacttat tagtaacatt gctagaaccc tacgaggctg cgaaacttaa 360

ctgaagctca caccgaccct actcagaaac cccgctatag acaatgggca ggaacatgtc 420
aaccaaaaga ctgagtgggg gcatcgcta ggagacagct catcg 465

<210> 17622
<211> 376
<212> DNA
<213> Glycine max

<400> 17622

tctttttttt tgttccataa gagaactact atcatttcat ccaaagatga tagtatacca 60
cggaatggtt tcacatgat ggatgcagag gaaatcaaga ataccactgg tgattgtcat 120
tttctaactc gaatattata ttttatgttc ttatccactc tttttactat gttattttct 180
ttagtcctat tgttaacaat tatttttgag ataagaagga aagaaaatca ggcttattca 240
attggaagtt gctgaaaaga agtacttccc acttagttca taatttaatt tttgttgcta 300
aaaaggaatt ggaccaatct gtgtgcatat gtatttatct atatacactt ttaatgctat 360
atgtaacgag gaattc 376

<210> 17623
<211> 380
<212> DNA
<213> Glycine max

<400> 17623

ttgatgatgt tttacataaa caagatatgg tttgcttacc tagagtagga gcaatctctt 60
atgtttcaag acgatctttg gcgacaaaaa acgtgtatta atatgcattg ttattgtgat 120
tgaaggacgg agtttatcca taatcttaca aaagattgat gtgctcctca tcaaattgga 180
tacttggtgc ataaaggcca aagatatgac aagcatgagg acattgaatc catcatgact 240
aatttttttt tctagaatct atgcttatga gaataattgt tgtgagaata atcttattca 300
tgatcatatc atgactagaa aaccggtttc ctacatcggt cgaaatggga ttctacatag 360
atgctcaacc gtttttattg 380

<210> 17624
<211> 290
<212> DNA
<213> Glycine max

<400> 17624

tctatcttgt aagattatgg ggtacccatc acatgtggca ctatgcggcg gccagccgat 60
ggtgcacaac aagattatct ctcacatcca caaatcgcg ataaaccac cattcgctga 120
tgccacctc caactgagct cagtgactcc cagtagccc atattctcgg ttatctcatc 180
accgggtaca catcaatcct ctcaagcttc cccaacatcc aagtaaaaca ccattccaac 240
cgcacaaact atcacagaca tgacaacaga gcacatgcag ataactctgc 290

<210> 17625

<211> 407

<212> DNA

<213> Glycine max

<400> 17625

gtgaacaata tacttggcct tcatttatct gtctttgtgc ttggcgcca cgctcaacaa 60
agtactttcg acacctactg tacgtggatt tcaccaatgc tgttatggga atgttgcaac 120
aatcctttta aaccttattg atacattctg agaggttcgt tgtcatgttt tcgtatcgac 180
gtccttctct atcgtaagcc atcgctcatt tttcctttga gatgcgatca atccatgttg 240
ctatggctgg actcagatca cgaaattttt ctaaattttg atcaaaaatg tgcttgcatg 300
gagtgtacgc tgcataaaat tagttatgaa taacaatttt aagtataaat gataagtaaa 360
ataaacgtga ccatcatata tgaaatctta ccaattttct tcaacat 407

<210> 17626

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17626

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gaatttacgc gatttaatct attaattcca naaacnaaca cacacgaggg ggggtgtttg 120
taacatacat acctcatctt cacnaacnac aacattacaa ttgaaacttg gatgtatacg 180
gacgatatgc tactagtgtc gtacgtgagc atcaaatgta gtctcgcgct ctctaactct 240
gagatgacga gtcatgacgt accgatcata tgtcgtgcgg acacgctacg cataaccccg 300

ccgcggtaac gatgattatc tcgaagactg ataaacgata ataaggattt gctgcacatg 360
tagttaaagc tggtttatgc ggagtatctc aggggaagggt tgcacgcggc cacgtagaat 420
cgtactgaag agggaaatcac caaacgggtgg gcgccaaccg gcgaacc 467

<210> 17627
<211> 252
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17627

acgacaacac aaaaaggga agcaaannag gggtgactga ccctaaancc acacaaaaac 60
aacaatatcc caacaaagg gacacgaacc acccgcacag accgccc aaa aagcgaaacc 120
aagaaacgac caacc caaac cagacgaaag aagagcaaca aaaac caaaa acgagaccgg 180
aaaggaagcc cacc cgaaac cagac caaaa acgcaaaagc acccaaccaa gaaagacgcg 240
acccgccaca ac 252

<210> 17628
<211> 377
<212> DNA
<213> Glycine max

<400> 17628

tgcttttcta attaacctga aattgagaga actaagtatt tattacctat attcaacata 60
aaatacttat aactactaaa aataaccata aattgggaga gtttgatata atttatacaa 120
gttgatata caaaagttag tcgtttttcac caactaacat ctgggcatgc ggtacttctc 180
aatgaaggcc ctgttaatag ggggccaaat gagctttgtg ggtgagactg ataccttgta 240
aaactggcag aggcctgtga tcaacgctgg aaatcctagt gccctgttga acttctctgg 300
gtccactggg tgtcttgag gtgcaatacc taaaactgg tagatgacat tcgagataag 360
ctatgctaca tgaacac 377

<210> 17629
<211> 410
<212> DNA
<213> Glycine max

<400> 17629

ttgtatgcaa caatgcaatg caatggaaat ttgttcaatg ttcatgaaat tcttcctat 60
 ttttgtgatt ttgatttgat ttttttttct tttttttctt gtggaaaaca caaatggact 120
 gtctcttttct gaaagatgcg acaactcatg caaccttata ctatcctttt ttgcaaattct 180
 cctggggggag ttgcctcaga gtgtatgttc tgtttgactt aattgacaaa tcttagagtg 240
 atgacaatgg agccattcgg tatttaaaca atcaattgaa accctagggg ttgtctcccc 300
 ctttttttgt ttaaaggcat tgattattct gcacaacaag agaaatataa ggctttatga 360
 ccaatcgcat gcaccattga atgatggcaa tggattgtta cactttggta 410

<210> 17630
 <211> 773
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17630

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 caaanacgcn nnnnaaaaaa nnnnanaaaag gaganntna tgcgatcgcn tgcgatagcc 120
 ccnnccnnnnn nnnatnnnn nnnnacnnnn ngagannaca cagcacaaca ngaaaaaaca 180
 cgncagcgga agaccaaagc acgatataca caccgattat cagcagacac accacnacac 240
 acnngcggn gngcaagggt gagagataga cataacaaca cacaccacat cccaccncac 300
 anaccaccac ctcaagaaaa aattcgacac acacacgagc aaccacaacc acgaacagtt 360
 cccatgcaaa caaccaccac acacacagtc gacaagatga anaaccaaac gatgatcgac 420
 cgncaccaca ccaacaacat aacacaatat acacaccatn gacacacatc aacacacacg 480
 acaaganaca catagtcagc acaacaccac aaccaacaag atgacactga ccacagagca 540
 gaagacaaga cacaacgga cacacgtcca cccacacgac gaccagaatg ccgaagcaca 600
 caacacgcn ggcgcctcat aacacacacg gacaacacaa ccacgctaga gacaacatag 660
 agacaccgca gacacacaaa cgcgagacaa caccagcacc agcagaacct aacaagccac 720
 cacaatactg aggagcaaaa cacaacagac aacacgcacc acagcacgac can 773

<210> 17631
 <211> 455
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17631

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atgatcgtga cacncnnatn annaggcgag caacacgacc acaaccgaca gatcattaaa 120
ccccacaaaa cagggggggg gggaaacacac caccacacacc acaaccacaa agcaagcaaa 180
aaagaatagc accaccacaca acaccaccag gccacaacaa acaccacgaa gaaccagaac 240
aaccacccgc ccgaagccac aacaacccgc cccacaagaa cacagcaaca acgagcacia 300
aaacgaaaaa acacgcacaa aacacggaca agacacaaca gcacgaccaa gaaaaaacag 360
ccaaagcgcc acccaaacc acagcgaaac acaaacaccg aaccgaaaaa caacatcaac 420
cccaacgaaa agaccacaca acggacgaaa caaag 455

<210> 17632

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17632

gggggactga cgtogatgac ancaatcnnt aattagacaa gactcccctc ntcctaacac 60
actatgtgaa atttatttat tttttagga gcacccgcgg ggggggtggg tttttttata 120
ctgattcccc cctccaacca atagaagggg gaaacagcga agaggactgc ccgggggtgca 180
caatctggac gcaagtggg tggggagcga ggagttgtag ggcactttta gcgtgagagg 240
agtaagcatc aggcgaggcg cgccgacgtg caggcatgag atatggagg gtttaggtga 300
gcattatggt accactgcac aaatatctga ggagaggggtg gctgactcag gagtatcctg 360
gcggtgtgca gtaagcccga gcccaaaccg gctgagaccc ttgttccgcc gcggctct 418

<210> 17633

<211> 515

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17633

ggaaaacccg agaagagaca gaagaagaaa gaagaaaagg aacgagtaga nnaaaaannn 60

naaagagaaa tgagactcgt agacancnnn anananannn cannnngngg cgataataaa 120
ggcaagaagg agaacgaagt tatttttaaaa ggaaacaaaa gaggaggggg caacgataaa 180
aaaatagagg aacaaaagaa gaaaacgaaa aggggaagata aaataaaaaga acgggagaag 240
agagaaagga agagagaaag gacaaaaaaa aaagaagaga aaagagagag agaagagagg 300
aaaaggagaa ggagagaata gaaagaaaaa gagaaaggca aaaaaagaaa cagagaaaaa 360
gaaaaagacg aaaaaagaag caggagggaa aggggggaga taaacgaagg gaagaaaggg 420
ggagaacaaa gaagagagga gacggaagaa aggggggaaaa aaaagaaaga gaaaaaaggg 480
acaaaagaaa gcagagggag aagaaagaac gagan 515

<210> 17634
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17634

cacgaacccg ctatactaaa acgaggcgac ggaaataacg aggaaannan nnnaaagggg 60
gtgtgatcat gacgcenacn ntnnnnnana gcgagcnaga acatacacac accgacgcat 120
ttattattat tgccggaaaa aaaggggggg aggaagtaca caacacaaaa aacccaaga 180
cagcgacaag aacgagaaaa gagcgaagcc aacaggccgg aaagcacgca agaactgaag 240
gacgaaacca agcaaaacgc ccgagaaaaa ggccacaaac gacaaacctt aacgggaaac 300
acacggcaac aaaggcgacg cagagaccaa caaaaagcag aagaggggaca cacacaaagg 360
agcgagcact gagaaaggct cgaccaagac aaaaaaatga gcgaaacagc cccaaaagga 420
cccaagcaac ggaagccacg caccaccaa g 451

<210> 17635
<211> 291
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17635

acccacacg ccgaaaaccg gccccannn nanaggattg gctgagcaca aanaaacacg 60
anaacaacca aaccaattt tgggcaaaac ccggggggac caaaaacacc acaccggcaa 120

gggaaaccgg gaaaacgcgc acggcgagc gggaaagggc aacccccaaa ggaaccgcca 180
 caacggcaag ggcaacacga agagagggaa ggaaacagcc gcacgcgacc aggccaaaca 240
 cggcgggcga cagagcagac ggcacgagga gaggcaaacg cggagggggg c 291

<210> 17636
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17636

cgcaccctcg aacagaacaa acacgggcac aatcacannn nnaaagaaaa tatgtcatca 60
 cgcancanaa naacaacagg acgaaaagga caaacgacaa aattgtagca acagcagagc 120
 ggggaggaaa gagaacccgc cagcagacac ataagagaac gaacacgcga gcaacggaca 180
 aagcggagag gaggggagaa caaggcagac aaagcagaaa aaggaaagaa aacaagaaag 240
 acggaaacga aagaagaaaa aacgagacac gaaacaacaa cgaacagaaa caacagcaaa 300
 gcgagaaaaa gagaagaaca agaaacacga caacgaagca ccgcccgggca aaaagaagag 360
 ccgacgacag acac 374

<210> 17637
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17637

aaaacaccag aagaaggcga gacaaaaaca aaaaaaanaa nnnaagagag gatgagctcg 60
 agacacantn ntaatacnac gaccnacaaa acaaaccaaa aaaaatttaa acacaaaaaa 120
 caagggggga gaaaaagcga acacccccaa ccagacaaa ccacagcaca aaagaaaaag 180
 cagacgacaa ccacaaacac aaaaaccgaa aaacaacaca cagagcaaac caaaaaccaa 240
 caagaacaga acaagccaag aacaaaaaca aagaacaaa aaacaggaag aaaccacaaa 300
 aacaaaacac accacaaaca cagcaaacac aaaaagagcg cgaaaacaaa caaagacaaa 360
 acaacaagca aaaccaccaa cacaaaaacc caaaaacc 398

<210> 17638
 <211> 59
 <212> DNA
 <213> Glycine max

<400> 17638

agcacaaaaa aagccaaaaa aacaccgaat aaataaaaaa ccaaagagag gggaaaaaaa 59

<210> 17639
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 17639

ttctttgtga ttccttaata catccttatt aattgtataa ttcttacttc ctaaactctac 60
 gttatatact tggttatagga accttataat tctaagtata tatagttgta gtatgggtgtt 120
 ctgccttaat tgcacagata gtaggggtga ttgtgatttc ttgttcttag taatgctaata 180
 actctatagt tggatgactc atatcaagtt atatttcata aggaatactc ttttgatcgt 240
 actctttatg ttaattgtat gatgttaggc tattttatct cacctcgctg attgaacaga 300
 atattattgt aaatttgacg gccttaattt gagccgatat attt 344

<210> 17640
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17640

tctatagaag gttcgttcct aatttctcta ctatttcata acctctcaat gagctggtga 60
 agaagaatgt ggcattttacc tgcggtgaaa aacaagatca agcctttgct ttgctcagag 120
 aaaagcttac taaggcacct gttctagctc ttctgactt ttctaaaact tttgagctag 180
 aatgtgatgc ctctggagtg ggagttggag ctgtattgtt acaaggtggg caccctattg 240
 cttatttttag tgaaaaactt catagtgcc cctcaacta cccacctat gataaagagc 300
 tttatgcctt aataagagcc cttcatactt gggaacatta ccttggtttc aaagaatttg 360
 tcattcatag agatcatc 378

<210> 17641
 <211> 587

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17641

ataacccgca cctcattcgg tctgtaccaa gatgntgtaa caaaaatgca aactggaaac 60
 aaaannnaaa gagggatgag actcgtagac aacnanataa anaannnacn nccggnngga 120
 cctaaagaga ccaccggcac gcacgcattc actaaagaaa accacatgca tcagagagcg 180
 gggggaacca cagctggcac ccgaacacac aaaacacaag caccatggcc gcaaagaaga 240
 caagcgcgta atgcagcgac ctctgcgac acacactcac caccaagacg ccatggcacc 300
 ctaccgaagc cagcgaaccc gaggaagcaa aacagagcca gacccggaag acaaacggga 360
 gcgacacaag acacaacaag acacttgctc aaaccagacg cagcgagaaa tccaccacag 420
 acaaagacaa caagcgaaca ccggcaggaa cacataccag cccagaacac gagaaacacc 480
 caaatcgaga aacggcccaa acatacgcaa agacaacagc agcgactcac cgcaccacaa 540
 aaacgcgaag caccgcgacc aacactagca cccccaggaa caaaacc 587

<210> 17642
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17642

gaaagaacca gacagaacga aacagagcgg acatagatac naacannaan aannnaagag 60
 aggnatgaga ctcgagacaa cgctattnag cacaccgcgg gaacacagaa cccccgcgac 120
 accaattcta ttaaacacac caccaaaggg gggagagaga gacgaaaacc ccaccacac 180
 caacctaataa gaggcataag cacacaccta caaggggaca aaaaaaccca aacacaaaaa 240
 caggcaaaaca ccaccaacag acgaagacaa caactacgaa cgcaggcaac aatcagacca 300
 cacaacaacc acaaagcacc gacaaaacg caaaaagaca ctacacaaca ccgaaacaga 360
 taaaacagca aacactacaa aaacaacaca ccacaacaaa ccgcactaaa cccgaacagc 420
 acacgcagca gaacacacaa caagacaaca aacacaagag gacaagcaca cacggaacc 479

<210> 17643
 <211> 424

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17643

gataatacga tgtgtcgtac tgtacaatta gnanaanaca ngnaanaaaaa aaatgggtaca 60
acaaaacaaa attttcttta tgaaaaacga gcaacacggc gggagtttta aatggaaagg 120
gccaccactc actggaatac cagaatgcc a ttgtaaaactg aggcgagaca gtaaggaaat 180
ccggaagcca tccaaatacg gccttatata cccaccacac taaacgaaaa ctatataggg 240
tatcccacct atggcacgcg tgcaaaagaa ataccaaaga tcaatggcgc gaagaggata 300
aagacgacga caaccaacca caagccaaaa ctaaaaccac agtcctggaa ggatgaaatg 360
acagagccaa caggagaggt ccagaaagta aaactttaaa acacatctga gggcagcgac 420
gtcc 424

<210> 17644
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17644

ggccaatgat cctcgacctc acaatngaaa aaaccacggn attgaaataa ttttcgaata 60
atattttttt tttttgacga acacgagggg gtgggggttc tgtcccacct tactcagatg 120
actagggaaa ctacgagaga cgttcgcgaa agattagccc aagtcggggc atacggctca 180
tggcctggcg catagtatgg acacatgttc ccagacggac aaacaattca ataaagagt 240
aacgcaacca tcgatagaaa accgtttaac gtactcttga gtaattgtaa gaggccagca 300
tctaatacgcc cgctgggttac agatatttgg cgaaagacgg catttagagg ccaatatgct 360
gagagtactc ggcatgaacg 380

<210> 17645
<211> 294
<212> DNA
<213> Glycine max

<400> 17645

cacaaaaaaa aaggcaaacc ccaataaaaa caaaggaatg agccgagacc ctataaacac 60

aacaaagcca caggagccta taaaccgacc ggaagggggg gaaaaaaccc aacacccacg 120
 cgcaaaaacc aaccacagca acccccacac cacagggcaa aaaaagaagg aaaggacaac 180
 cgacagcacc aacaaaccaa caaccgcgc acgcgccaac cagacagaaa acaaacaca 240
 ccagaacaac aaaaaccaa aagcagagca aacaggcacc caaaaacaca acac 294

<210> 17646
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17646

gggatggcct gagcctgaaa tctgcaattg taagncccat tataatggac aaaaaagatt 60
 ttttttttat cgaaaaaac ggggggaggt ggaggtatta aactccttac accgatgtat 120
 aatggatcta gggatatgta tgtaaagact tgaatggaga tatgtgggat tgtaacgga 180
 agtcatttgg gtgaatagat agacgaaagt tagaagtcgg attataaaat gatatgtatg 240
 agagaaatag ggtctactga tcgggatgga aatcaagacg acatcagata gacttggtgt 300
 cttgcactaa gtcgatgata aaagaaaagt atgagcgtgt gctgaacaca agtgagatag 360
 gggaatataa ccagtaagta cgggattgga caatgtgaat gctgctaatac ttagataact 420
 acttgatacc 430

<210> 17647
 <211> 231
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17647

acacaaaag aagcaaaaga caaaaaaaga taccaacnt ataancggaa acaaaaaaca 60
 tattacaacc cagcgcaaaa aaccacaaa aaaaacaaaa aaggaaaaaa aaaacccaaa 120
 aagaaaacca aacacaaaac acacaaacaa aaacccaaaa aaccacaaaa cagaacaaaa 180
 ccaagagaac accagaacac aaaaacaccc aaaccgcaa cacaacaaa c 231

<210> 17648
 <211> 414

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17648

caccaccccc aaacacaata cgcaaagcac ccaacaannn nnnnaaggaa ttgatcacga 60
tgcacctaata agaacnccaa aaaaanacac aaacaatatt cttacacaaa caaagggggg 120
gggagagaaa acagacaacg acacaaccaa aaaccgaacc aaaccacaga gaaacaacca 180
acaaacacca caaccgagacc caccaaaca acaccacccc acaacacaac acaaaacgaa 240
caaaacaaac acacaaaaac aaccgcaaaa gacaaaaaca cacagcaaca ccagaccaac 300
accccacaaa acagcaaaaa aacacgaaaa aaacgacaaa aaaaaagaca acagcacaca 360
aaccacagaa tcaccaccac aaacacaaaa aaaccaacac acaaaacacc agcg 414

<210> 17649
<211> 301
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17649

gtgcatgtgc tgtgacncnt tataaacnc ggggacaagg ttataaatca gttatTTTTg 60
gaaaattgag ggggtgttaa aattaactgc acagaaggaa ataagggaaa ggggagagta 120
atggaatagt tggaagtagg gaagggtgaag gacattagtg aataggtatg ggtgtggaag 180
gttaatggag atgatgggtg agtggtgggt tgagaaaattt ggggtattgac aatacgggag 240
aattagtcac gtcaatgtaa agttatgttg attaaggaaa agagaaaatg gagagcgagt 300
g 301

<210> 17650
<211> 702
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17650

gatctaacag taacaannta ctcaacgana tcngtcaccg gttgntacac ggaccncgaa 60
ttnttcaatt aactctctc ccnccaaaa annnnncnc aggagangan nattgatcgc 120

gatcgatang nacanacnna ntctanntna anannnacn gccaaaacca naaaacacaa 180
naangncgca cgcacacacg cggcacagct tatttgccat ttcgatatga cagcaggaac 240
aaacggacgg aggaagcgcg agcatactat aaagcacact antaacgccc aacaccanac 300
acgaagtgan atgacaacac gacacacgca ggcgangnag cacactacac agacagagca 360
gagacactga acacaacaca antgcgagggc aacacgaaga caagaaccca cccaccacga 420
gagacaggcg catagccaca ccaacacaca catgaaacaa gagggatacc acccagagg 480
atgtaaccac acggacaaca ctcaccgaan gtcacacaaa caaatgacga acacgacaga 540
cagaacgaga ctgcgaaatg cgacacgcaa catgaaccgc gacacanaac acaatcaacg 600
cgctgaacgc aacacgagac gacgccacac acgaaacaga aanccaaacg aganaccgat 660
ccgcacgaca caccaaaaga gacacacgga cgaaaagaac ag 702

<210> 17651
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17651

cccaccaacc catagacata gagacacaag cgcactccct aanaannana aagaggatgt 60
aatcgatgag ncantcnttn gattacaacc ngcgatcaaa naaaaatccc aagagaacac 120
ttttttacac aacagcccc cagggggggg gtacataata gacacccac aaaacacaca 180
ggaacgaaac aaacgcgaga acgcctatca acagcaaaag acacgggaac cccactcaac 240
gaagtgagac aactagaaga aaaagaggag acccacacaa aggcgagaaa aagaaaatga 300
cacgaaaaaa acaccgcga aaaatgggaa caagcacacc ggaaaacgaa acgaagagca 360
aagtccaaca taagaagaaa gaaagattaa aagggcctgt gaccaaata cgcgacaaac 420
agagcgcgca cagacaaaaa aaggaaggaa cccgaacaca cggccgcc 468

<210> 17652
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17652

atgggattga tgctgatgtc ttgannaccc aaatatagaa aacccccgga gataaattcg 60
 cgngtacaaa actttatttg atgattcatc accaagacac tggagagatg ggggtgttgt 120
 ggaattatac acctccccct tatctacttc tggggtaata ttatcggcgt gaactgatca 180
 cgtgtatata tcaactgctg aaagtaagta attatagtgt gtagtaatta gactggatgc 240
 atgagcctgg aatcacctag atgttcacac ttactatcat gtgacttggga actatccaaa 300
 tatcatgtaa aaactaagga caatataagg atagtggttt aagagatcac acatatgtga 360
 cctgagcacc atagatgtct aaacatctga agaatcacgg atacgatcgt aagaaccatg 420
 tgaattaatc gtctatgaga atccgcctga tgatcg 456

<210> 17653
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17653

ggataatatg aatgtctctg aaacacnaat tggaaaaccc ggggtcttcaa aaattacgaa 60
 ttattttttt tacgancacc cggggggggg cttttgatcc atcccccgcg agttaatact 120
 ggaattactt gacaccaacc aaagttaggg actcaacagg ggacgaataa gtactgtcgc 180
 gccaatcatg cgacagacgg tcacccgcgc tgcggggttag ccccccgga aaacgacatc 240
 cgcacatact ccggaaggcg cgacggacag agtaacgtcg aacgggggggc acactgcatt 300
 gaccgctgta gtgtcatata ctcaagtatg tgagcaaagg agggtcagtg 350

<210> 17654
 <211> 217
 <212> DNA
 <213> Glycine max

<400> 17654

ttctttcgtt ttcaattact tgtgtctcga taccctacgg gacacaatcg gacatccgag 60
 tcaaaagtta ttatcgtttg acttttctta gagctcccga gttcaatttc tagcgtctcg 120
 atatattaaa gggctcaatc ggacatccga gttaaaagtt attgtcgtta gacttttctt 180
 agagctttcg ttgtcaattt cgagcgtctt gatatat 217

<210> 17655
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17655

ntggagtttc caagtgccaa ttcgtcctct tctttagtc attcttcttc tggcttcaat 60
 tcatcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120
 gctttccagg ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccagtat 180
 tcatagttgc ttccatcaag aattggtggt ctgttccactg gtccctccttc tttctccatg 240
 ttcacagaa tttatctccc cagatctcac tctgtgattt cgagtgttgg ctctgatacc 300
 aattgaaatt ctgataccag tggacagatg tcgtacagga tgtcacgaca tcacgcttca 360
 aacatgcagt ttatgtgtgt ccgtatgaac 390

<210> 17656
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 17656

atctttgatc ggtaatttgc gaccagaggt cgtaaagctc gtctctgctg atcttttcaa 60
 ccttcagtct acgtctacga ctcagcgcgt caaatagttc cagagcgaac tccttagagt 120
 ccttcatccc ttcaaaaaat taaacaaagc atacaaaact cttcaaacaa ggagtgaata 180
 tgacaaaccg attaaatgca catgcgaaac gcaagaatct gaactgaaat ttgaaaagga 240
 atcgtaccta tgcattgcgc aaaatcagtg cgagaaagat aaccgtcctt ggcaagacta 300
 tagaaattgc tgtgcacctc gttccacgcg ttagcgccat tggatttact 350

<210> 17657
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 17657

tcatatatat atatattacc ttgctacat ccgttcttat actatgtaaa aatgatctat 60
 atatcaaatt ctatctatcc tttcgtttgt tatcaatctt atacacacaa tgacatatca 120

aattatacca tggtaat tttt gataattatt atactat tttt tatatacgag ggaagatcaa 180
attataccag tataat ttttg ataattatta cactat tttt atatacgaga ataaatcaaa 240
tcataccgat ataact tttga taactattgc attat ttttta taacttgata tataatgtaa 300
tttttattga tataactgtt aagttatatt cacatattat caagattgtc cgtattatat 360
tttgtcaaaa ttgaacaaca agaaagtaat cacattatct atatgttaa 409

<210> 17658
<211> 314
<212> DNA
<213> Glycine max

<400> 17658

atcttgtctt ttcccttgat atattagagg gactcatgct cactatgaat gacaaatcac 60
ttgggataaa agtaatgttg ccatgatacc aaagcccgt aagggcata caacacctta 120
tcataagtat aatagttaag ggtaggacca cttaact tttt cactaatata agcaattgga 180
tgaccttctt gcatcacaac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240
aactatattg aaagttcggc aaagcaagta tgggggcatt atctaactct tgcttataaa 300
cattgaaagc ttct 314

<210> 17659
<211> 332
<212> DNA
<213> Glycine max

<400> 17659

taggtcatgg ctcaagtagat agacccttg aaccttagtc ttacacaaat gctatggata 60
gacatgtaga atgttcacat tacatcgaag catgggtcaa tgagtcacaa cgacaagtgt 120
acttacgagc ttactagaat cagtatgtca aaagtatgta gcacactcaa aatattttca 180
ttatacatat ctaataataa ttgtcgacct taaggcaccg tgacaactat gatgttctgt 240
gtccatggga caacattgtt gcttggcttc ggccttgaa gcctgatatc aacatataag 300
gctcaattca cagatttttt caaaatttat aa 332

<210> 17660
<211> 157
<212> DNA

<213> Glycine max

<400> 17660

ttctttcttt gcggtggtgc tatgaccaac gatgatcatt aatatgaaga gaacggaata 60
tcgtggtggt gtgaaaagct tgagctgtga agagaagtga ctgagtgagg ttatttaagg 120
ttattctaaa tgatgacgtc tatttgggtt aatttac 157

<210> 17661

<211> 298

<212> DNA

<213> Glycine max

<400> 17661

tgggttaaaa accaccctc accctatgcc ttttattttg caatggtcga atgacaatgg 60
tgaattggtt gtggataaac aagcatcact tacattcttc ataggaaaat atgttgacga 120
tgtgcttcgt gatatggttc ccattgaaga ctaacatgtg ttgcttgtag gaccttgtag 180
ttatgataga gatgctgttc acaatggggg caccaatcaa tattctgtct tccataaatg 240
taaaaagggtt gttctctcac ctttgcctcc aatgagggtg gtgaggatca tctaacc 298

<210> 17662

<211> 387

<212> DNA

<213> Glycine max

<400> 17662

ttctatgatc caaaatccta actcaccata aaccttgacc cagggcgaga atgtcaatcc 60
ttaccctcgg aagcaaaaaa aaaaaaaaag caaaaaaaag aaaagaaagg aaattcccaa 120
tcaaagagtg ggagagagca aaaagaaaag aatggaaatt cccaatctaa gagggggaga 180
aagcataacg aacagaaaga aaattcccaa ccaagaatg ggagaaagta aaaaaggaag 240
aaagacaagg aaggagagaa agttcctgat caatgaagca taaaatatgt gcagaaagg 300
cttttgacca tacaatatct gaacaatata gatttggcac caaatgaaca aaatgaatga 360
aaggaaacca tgacctaaag tgggtctt 387

<210> 17663

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17663

tgaagaggat gctntaatgg aggaaaagaa agagataatg ggggagcacg aaattgaagg 60
aataaaagag ggagagaagt ggaactttga agtgtgtctc ataagacttt cattcatcaa 120
agttacaaca agtggttacac atgcttctat ttatagacta ngtagcttcc ttgaaaagct 180
ttcttgagaa aaattccttg agaagcttct ttgagaaaac ttccttgaga agctagagct 240
tagccacaca cacctctcta atagctaagc tcacctcett gagatgagaa gctagagctt 300
agctacacac ccnctataat agctaagctc acccccattc caaaaataca tgataataca 360
naanaaagtc tctactacaa agactattca aaatgccttg aaatata 407

<210> 17664

<211> 128

<212> DNA

<213> Glycine max

<400> 17664

tctatctttt acatgcatgt gcacacagtg ttgactaatt ttagatcaac tgatgcaatc 60
tatttgaatt aaaagataat tcatgctact cttataatgt ggtgtacaac taacaaaatt 120
aattttat 128

<210> 17665

<211> 408

<212> DNA

<213> Glycine max

<400> 17665

agcttttaca tgcatgttca caccatacat actattcttt atcaactgat gcaatctatt 60
ggatggaaaa gatagtttat attactcttc taatgtagtc gacaactaat aaaaatgtaa 120
cagacagtag tgcttaagcc attcaaatca agtcattgtg aatctcatca ttactatcat 180
gcatctcaaa gagaatgaga atcatgcatc gtaatgcata gcacaacaaa acattaaaag 240
aaaacatgtc ttctaaagcc aaccaaggta aaaatgtatt tatatttgtg aactttttca 300
caattataac acatatataa aaacatgggtg gaacatctga ccacatgcac aacacattcc 360
acacattatt attgaaaatg agtcggaagg gaatataata acgcattg 408

<210> 17666
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 17666

ttctttaacc tcacgactc tcacaatcgt tagatttggg agccaatcca atccttgtgt 60
 ccggactctc agccacttat gatagccgcc gatgctccca ttactgcttc ccctaagctc 120
 tttgtccttt cttcacgccg catcccatgc cttgggaact ccttggagta ccctcgcggt 180
 gtggtcacta aaaccccggt cgatgaaagg cgtgatgctt tegtctaattg gcgctcctct 240
 catggggtag ccaagagttg gtgcacaaca aacaatactt gcgccgctct tttcacatcc 300
 ccggtcgaac gtgtcataca tggccaaaat ggcgacgacc tgggctttct tgccatgatg 360
 a 361

<210> 17667
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 17667

tcaagccaaa tggacttacc ttgaattaat ttctttgata acccctttga gcctatgttc 60
 ccctttcttt gttttgaagc tcattacaag ccttaagtga aaaaccatga taacacctta 120
 cccttaaaga attttggagc tttggaattg ttttgggaat aagtgtgggg gggtatgttt 180
 cattggaaga tatgatTTTT ggccatgatt aatgttttat tttggccatg gttgatgtat 240
 atatatatg cctagatctt gctttaatct tcaaattcgt actgtctaaa aaaaagagaa 300
 aaaaaatgaa aaaaaaatc aattgctgca aattctgcag attctgtctg ttcaaaaaat 360
 acaaaaagag aagaagaaga gatgcgaagt tgaataaatg atgtctt 407

<210> 17668
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 17668

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aaaactatta tttgtgatta tatatttata tattttattgc aatgtgttat ctaatatatc 120
 taatgtaaag gagtagtata tggagaaaag atgtacattt gaccgctctg agagagagaa 180
 aacaaattaa aaactctctc tgggtattttt tgattattat aaagatttgg gacttgaaaa 240
 aaaatctaaa cacaaaaata catgtagatc ttattgcttt gagagagaga ataaaaataac 300
 gaactctttc tataccaac gatataagac tatactatga aagttacac 349

<210> 17669
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 17669

tgattcatga ttcaattcat gtatctttcc attatccacc gaaatatcac taccaccaac 60
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 tttaacacca gagtcttttag caaagttcac ccctttatca ttgttcaaac atttattggt 180
 ccttatgccc gaattgggtg attgtcttcc tgtgtggccg taatcagaat acagtttctt 240
 gggcatgata gggctgccat cattccacaa attttcacta gtttttgtct ttcccccata 300
 ttgattatca aattgcagaa atggtgaaaa ggataaacc ttggccacat ttttagtttc 360
 tgatctagct ctagcagaag cattaaccac agc 393

<210> 17670
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17670

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 acttgtatgt aaatgattac cagtaacgga actaaaaaaa ttcaaattga aaaggcatga 120
 cttctcatta cataactgtg taatcgatta ccaaagaagt gtaatcgatt accagtgagg 180
 aaattataaa agttactctg aaaagtcaca tcccttcata agttttcgaa aaaccaccaa 240
 gggcctatta atatgtgact tatctatgat agttttgaga agtttttcaa aaccttattg 300
 tcttatctc tcaaaaaacaa atcattggcc aaaca 335

<210> 17671
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 17671

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accatgatat aattggcaag ttttcttggg agtaattggc actgaagtgg aatcctcaaa 120
agacagaatg caagactttg gtttctgtgg agaagcatgt tgtttgagac ttgtcatatc 180
aaagctagtg ttgatctctt ccaaagatga agaattgctc aaaaggggtg ttttttcttt 240
tgtgagatat gaattagggg agtgattttc ccatgagagt tctccaggat cactgaatt 300
ctctccctcc aatggttctt caacagagtt catgtcacat tcagtggata aatgataatc 360
attattgtcc tgcaaacatt tcaggaataa ag 392
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<210> 17672
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 17672

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tgtttttatc caaatggact taccttgaat taatttcttt gttaaccctt ttgagccttg 60
attccctttc cttgttctta tatgctttac tttgcaatga atatccaaga aatatgcctt 120
catcagattt tgcacaaat tttcctagat tatctttacc attgatgtgc catcattttc 180
ttctatttct taaacccttt ttgcaccatt ttaattactg attagtctta attgtcaaat 240
taattaggca attttattat ttgggctcat ttagctaatt tgatgtgttt aatctaattt 300
caggaattaa tgaaacattg tgcttaatcc ggattttggt tgtggacttg atgagggaaa 360
ataaagcaat gcttacc 377
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<210> 17673
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17673

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ctcagctttc ataagtgaaa tcaggtgtag ccatctcctt ttagtcctct cagaggtgg 60
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aggttgagcc atgttctcag tatgaaaatt agtagttgaa tgctcaaaat tagaatattc 120
agaatcacca gcaacagaat acttagaatg ctcaaaatgc tcaaaatgca caaaatgacc 180
aggatgcaca ctatgcctaa ctaatctatc aatgggttcta tctatttcaa gatcaaaggg 240
ttgtaaatac cctacattgc ccctagtcac gactctatg cagcanatca tgtgtttctc 300
acacaagcac aaggggaggg ttaaaactac aactatagtc aaagatatcc aaatgagctg 360
aaattntgtg agcaacaccc ttaaatcatg aatagatagc acanaaattt tc 412

<210> 17674
<211> 329
<212> DNA
<213> Glycine max

<400> 17674
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taaaaagtta tcgtcgtttg aatttgctca gagcataaac attctatttc gaatgtctcg 120
atatattacg ggactcaatc aaacatacga gaaaaatggt attgtcgttt gaatttgctc 180
tgagcttcaa cattcaatct cgagcgtgtc gttatatcac gggacttaat cagacatccg 240
agtaaaaagt tgttgctgtg tgaatttgct caaagcttaa acatttttat ttcaatgtct 300
cgatatatta cgggactcaa tctaacata 329

<210> 17675
<211> 405
<212> DNA
<213> Glycine max

<400> 17675
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ctcggaatca aaaaataaga agagaaggaa aatttccaat caaaggaaaa aggagaagga 120
aaatttccaa tcaaaggaaa ggaaattccc aatcaaagag tgggagaaaag caaacagaaa 180
agaaagaaaa ttccaatctt aagaatggga gaaagaaata aagagaagta aaaaagaaga 240
aagctcctgg tcaaagaaac caaaagaaat gtgccgagag gtccttggac tacacgatat 300
ctgaacaata cagaattgtc accaaatgaa caaaagacag ataatgaaac catgacctaa 360
aagtggtctt ctcccttga ttaccaacca aaatcctgtg cgcta 405

<210> 17676
 <211> 303
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17676

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 attaacaaac gaccgtttgc ccatcggtat gagggtgacc actggttgaa aataacaatt 120
 tagtgcccaa cttgctccac aaagtcctcc ataatggct gacgaactta gagtccctat 180
 aactaacaat gtccttggc aaaccatgga gtctcacaat ctccgtgaaa acaaatcagg 240
 cacatgggaa gccataataa cttgtttaca tggaataaaa tgagccaatt ctaaaaacct 300
 atc 303

<210> 17677
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 17677

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 atattgagac gctcgcaatt gaaaacagaa actttgagct tattggaacg acaataactt 120
 ttgactcaaa tgtccgcttg tgtaccttag tatatcgtga cgctcgcaat acaaaaggga 180
 agctttaaga aaatcaaacg acaataactt ttaactcgga tgctggatag agccccgtaa 240
 tgtatcgata cgctcgatat tgaaacagaa ccttgagcaa ttcaaacgac ataacttttg 300
 attcgatgt ctgat 315

<210> 17678
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 17678

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 atttccaaga gtcacatctg ttcaaatggg ttttgaatgg ccatcaaagg tctatttgta 120

tgtgacttgg aacacaaaatc tgcttagatt ttttcagaac aaaaaggctc tatcctctca 180
aaagcaaaat tatcttatcc tcttaaaaat tccttggaaca atacacttgc gattcaataa 240
ggaattatct tgagttctcc attgttcaat ctatctcttt caagagagat ttcttcttct 300
cttcacttta tttctaaaaa gggattaaga gatcgaggat ctcttattgt aaagcaatct 360
gaacaca 367

<210> 17679
<211> 407
<212> DNA
<213> Glycine max

<400> 17679
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tgtttgtgca tccactatca acataccata catcctttga acctaaacta tttgcttggg 120
tagccataaa gaagtgtttt caagctttag attgctcatt agtgagggtg acttgatgag 180
caagggtgtg ggtgagattg atttttctta aatcggtggg acctctcttt atatctgcag 240
ttctagcaat tgttacattg aatttgaggc ttccccttat gtcaacaatc tttagacaag 300
tcgtttgtcc ttttgcattg agtgcaagga ggaaaattgt cccttgatat aaattagggt 360
gaactcccat cttgtttgac ttttctcttt gatcacctcc tctttta 407

<210> 17680
<211> 374
<212> DNA
<213> Glycine max

<400> 17680
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tttgatcatc ctgttttgat gaatgagaaa actggggcaa atgaagagga tgagaatgag 120
gaagggtgtg atgtatgttt acatgatttt gatgatgtca aaagaagaat caaaacaagg 180
ctcatttgct tcaagattaa tacaagattg tttcaacaaa caaagccttg atttaagatt 240
tcttcaagat caagccttgc ctcaaaataa aagggttcaa gtcacccaag gcacatgtaa 300
tcgattacca aggcacatga aagtgtgtaa tcgattacac atcatatgta atcgattact 360
agagactctg aaca 374

<210> 17681
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 17681

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 aaatgggtttt tgttgattct gaggtatatt ttgtgctctc tatttgattg ttggattggt 120
 gttgatgtca tttattgatt atatagtttg catatttcag ggtgatcaaa ttcattgctat 180
 ttgtaaatcg gaccacctca agtcttggaa agctgatttg aaagagaatt tcacttatgt 240
 tatgcataat ttcaaagttg ttaagaatga tggccaattt agattgtgcg aacatgagta 300
 caagttattt tttattggag tgacggttgt tagagaagct gatttgcatg aactgtcttt 360
 taaggaattt a 371

<210> 17682
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 17682

ttctttcttg tattatgggg taccatcac atgtggtact atgtggcggg ctgtccatgg 60
 tgcacaacta ggttctccac atgcacaatg cgcgcattaa ccaccatcc cctggtgcc 120
 accttcaact gagctgacgt gtcacacat agaccatata ctcgtttatc tcaacacctg 180
 ttcccatca atccttccat gctttcaca cattcaagcc aaacaacatt gaccctgcac 240
 aagctatcac ag 252

<210> 17683
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 17683

ctgggatgcc gtattgaaag tgaatctttt ttcattttga atctccaata taggtataaa 60
 atgcaattca atgttgaagc ataaaaaac tggatattaa taactaaata atggtgaaaa 120
 caacacaatt agcgaagcta aaaggctaaa tattttaaag taaatgattg ttcaacatgt 180

aaattaacaa accatcattt taaaaccag aaaatacaaa ttaaaattca gtcactattg 240
 ttgtcgcccc aatttttttt gtgttctaata aacaatttcc caaattgtgt catgaggcct 300
 ctggtaaaat gagagtctgt atccactatt gttgggtgag atcaacaatt catacatgca 360
 ttctagatgt taataggggt ctat 384

<210> 17684
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 17684

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 ttgtgatata ggaaatgtgg ccatgctcac aaagcccgaa ctaatgcgta caacttctta 120
 tcataagtta aataggtgag ggtgggacca ctcaactctc cactaaaatg agcaattgga 180
 tgggctctct gcatcaacac aacccaatc ccgacatttg aagcatcgaa ctcgattacg 240
 aaaaatcctt gaaagattcg cgacgcaagt atgggggcaa taattaacat gttgcttaac 300
 aacattgaaa gcttcttctt gtttatctcc ccatttgaa 339

<210> 17685
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 17685

gggtaccca tgttgaatat gctgaccaa gatctgttta tagcaccact aactgtctc 60
 cgttggaagt tgtttatgga tctaaccac taactctac tgataattcg tctatgccta 120
 atgtctctat tattaatcat aaagaaggc aatcaaaggc gaactatgtg ataaagactt 180
 atgaaaaaag ccgagatcat attcggagga aaaattaaag ctatgctaaa caagctcaca 240
 gagggagaaa gacagttgtc ttccaacca aatattgaga ttgggcgcac atgaagaaag 300
 caaggtttcc ggaacaaacg aatcatcac attaacctaa gggagatgga ccatttctag 360
 tgcttgacac agtccaagac aatgcctaca acagtcgacc g 401

<210> 17686
 <211> 352
 <212> DNA

<213> Glycine max

<400> 17686

ttcttgtctc agcgtgtatg cgagacggag accaacaatgc tagctatcat cgccaagtac 60
caagaagagt tatgtctagc cgcggtccac gagcatagga ttgcggacga atatgcccac 120
gtatacgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180
atgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttcc ccgattgtta 240
tccaaggcca aggcgatggc agacacctac tccgtccccg aagagagtca tgggcttttc 300
ggctattgtc agcatatgat agacttattg gccacataat tagaaatcgg ta 352

<210> 17687

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17687

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gcgagatagt tgttggcagt gatattattg accagccctc cgaaaccttc taccgagatg 120
tcttgggcca catgggcctc attcagaact ttactagca gagcccgatg aggctcggag 180
ctcatgagta actccaacag cgagaccctg gctggagttt tgttgagctg ttcgataacc 240
ttgaattcgc tctgctgaat tatacggagg aactcactgg cttcctctag cgacacctcc 300
tttttgccat cccttntctc cggaagacct ttcgccggaa tatctttatt cgaagcgagg 360
ggtgcttcgt catcttggtc ctccaccact ttccttacc ctagacgttc gcgggttgga 420
ctg 423

<210> 17688

<211> 368

<212> DNA

<213> Glycine max

<400> 17688

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tatacctcct attttcaatg gagtgggtta ccattactgg aaaaccgta tgcaaatttt 120
tatagatgca atagatttaa atgtttggga tgcaatagaa gtatggccct atattcccac 180

tatgggtggct ggaattttaa ccatagaaaa gcctaaggaa gaatggactg aagatgaaaa 240
gagattactg caatacaaca tagaagacac aaatataatt acgtatgcct tacgaatgga 300
tgagtactct aaggtatcaa attgtaaaag tgctaaagaa atgtgggata ccctacaacg 360
tacacatg 368

<210> 17689
<211> 402
<212> DNA
<213> Glycine max
<400> 17689

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tatgaatgcc aaatatggat ggagtgacaa aagcttcact atattgctta atgtaatgca 120
acgtatgctt ccagaataaa acagatcgcc aaatagttac tatggggcaa agaagatact 180
gtgtccgatg agtatggagt attagaaaat tcatgcatgc cttaatgatt gcatgctgta 240
caaagatgag tttgaagata tgcataaatg ccctatgtgt gctgtatcac agtacaaagt 300
gatagatgat acaaatatag cagtgatgaa agcatatacg aagaccccc tatgaagatg 360
tgatggtatc ttctatcat tccaaggtgt aagcatctat tt 402

<210> 17690
<211> 377
<212> DNA
<213> Glycine max
<400> 17690

tcattcttgt tcactaaaga aaaagtatca gagaaatcga ttccatcttg atgagtatat 60
cctttggcaa ccaatgagct atgtatctat ccacagagcc atccatttta tatttaacct 120
tatacatcca gctacaacct atacaatgct tatcaggtgg taagggaaca agtgtccagg 180
tggaatttgc ctcaagagct ttgatttcct cattcattgc ctgacgccac tcaggatagg 240
gggcagcttg atgataaaat tgaggttcat atacaactaa aatctgggta atgagagctc 300
tgtaagggga gctaagagcc aataatgaac aatgatgctg gatcggatat gcaatcttag 360
atattggtgt aacatag 377

<210> 17691
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 17691

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 tgctgccccaa gtttcacggg cttgtaggtg aagatcctca taagcatctt aaggagttcc 120
 ttattatctg ttccaccatg aagccccctg atgtccagga agatcatatc tttctaaaag 180
 attttctca tttctctggag ggagtggcaa aagattgggt gtactacctt tctcccagat 240
 ccatctccaa ctgggatgac cttaagaggg tgttcttgga gaaattcttc cctacatcta 300
 ggaccacgac catcagaaaa aacatttcag gcatcatgca acttattgga gagagcttgt 360
 atgagtactg tgaaagattc 380

<210> 17692
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 17692

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 ttttaattct ttgacccttt gaatgaccaa attggctttc gatgtcttca tgagacttgt 120
 agagaatttt atcctttaca ttcaagcact ggtatcatgt tatttggacc attacaacat 180
 aatcaatcct tatagcattg cagttttgtt atattgtgag gacaaactga catctctatc 240
 ttcatgggtca gtttcttcca agatccaagc cttatttgcc catgacttct ccataaaaga 300
 tatatatatc tttctcttag ctttctacaa ccactgagat catcccaaat tcaactcttg 360
 agctcaa 367

<210> 17693
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 17693

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 atgggtgcctc cctctctctc ttctcctttg ccttccgctg catctccatg gtgaaaaatc 120

accattgaag gacctcattg gagctcaaag atccagcctc catagaatct tcacaagcaa 180
gcttccatca cctcttttcc tgtacatgac tgtgttagac gagtctatgg gatgcggtgtt 240
gggtcaacat gatgactctg ggaaaaagga acaagccatt tactacctaa gcaagaagtt 300
taccgcatgt gagatgaatt acacaatgct ggaaaggacg tgctgcgccc tggtatatgc 360
gtcacatcgt cttatgcagt acatgctcag tca 393

<210> 17694
<211> 380
<212> DNA
<213> Glycine max

<400> 17694

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tttgaccatt gttcttcctt cccgcgatgc ttcttttcat gtctgcctga gtgggcttat 120
agcctaaacc atacttccca cgattacctt gggatattat cagtctagtt atgccgccgt 180
tgtattttcc taaaccatc ccgggctcat aaccgttccc caacataact cgggccatca 240
ttaccgttgc atcggacaaa ctgtgctgcc caaagagggg gtccacggag gaaatgttga 300
ccacctcaat agactggaaa gcagtttcta acgattcttc tgcggcttcc acataatgca 360
tggaggatgc gcagcttacc 380

<210> 17695
<211> 284
<212> DNA
<213> Glycine max

<400> 17695

tcaagaacca ccttggctgt atcaaaggac tttcacaacc tttgtgtgtt gccctcgctg 60
gacagagtga ttctttcctt cttttcatca tcaactttgt tctttcaaac cacaattcca 120
gaaaatccac ctctgccag aattatctcg tggccataac tcccatttta cgcactcaaa 180
ttaagtgatt cttgagccta aattgaattc aaaacgagac ctttcacctt gttatggatc 240
acctcatttg gagccctgta gcttcagtta ttgccatttc tata 284

<210> 17696
<211> 372

<212> DNA
<213> Glycine max

<400> 17696

tatcttaacc ttgggtaact aactaaacca taaatagtcc ctcccactca ataccactac 60
cactttcaaa tttcactttt tgcattccca tctttgcaact cttctaattc ctaacttata 120
taatataact ttatttagaa aacgacaaga ttagatattg tttggtaaata tatttgtgggt 180
aaataaatgt atatgtttga taatgacaac acagactatg ttctcattat aacattttaa 240
atactataac ataacatcta aatattgtca tttaaaatca taattgacaa atgtttatct 300
ttggtaaaat ttaattaata gagatatcaa tctcttaaaa tacataatca aaaatacaat 360
tgacatgaaa tg 372

<210> 17697
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17697

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gctatttgtg aataactttt tcaaatacata taatataacc ttcagtatcc atatccgtgc 120
atgtctttcg gaaaagagaa ataatatgcy gcgcggacaca ttcatatatg aataaatcgt 180
caactttgtc cccgtgtgaa atatcgacga attagttcta aattttaaat ttaattatta 240
aatatgaaaa atgtaataaa ttaattatac aggtcattta atgataaatt aatctgggtta 300
aattaatctt aaaaaatatt acttattctc aaattgggtc ttaaataatta taacaaaata 360
ataaaattat ctaacaaaat taacaataaa attaatatt 399

<210> 17698
<211> 367
<212> DNA
<213> Glycine max

<400> 17698

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gatatccatg tctcctgttg agttgatact gtgagcataa caaatgcatg tatcttcaat 120

tgacaaatga acttgtataa cataatgtaa ttacttgggtt aaaactcatt ttttagtcat 180
 atattgataa aaaaatggag acaacaaggt tagtggtggc gtacacgtat tgtgcatgat 240
 tttcctccga agctctggct tctttggaag cattcttctg tccccttaca gcttttagcta 300
 tttcaagatt gtgaggccaa ttaaatgttg aatacgcgaa ttatagccta tttgagtcta 360
 acatgtg 367

<210> 17699
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 17699
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 ttttatctgc tgtatgaatg aattacactt gcacttggtc tcttttgagt gcatttttct 120
 gatttctggg tttgtgaatc tcttggtcca acaattggta tctagagttg atttgatcat 180
 gagggactgt gagagaacct tgagtgtaca gagaaattgg aaatcacaaa tagagtttga 240
 gagaacccaa tcctctttta gaatacccaa ctttttaa at ggcttccaac aatgttccat 300
 tactagcacc tcctgtattc acaggaaaga acaacgaaat gtgggttgtg aagatg 356

<210> 17700
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17700
 agcttaactt atatattttt attgtagac taaacctttt aacctgtgat gttgcaaact 60
 acaaaagaaa cacaagtcac taacaaaatg cggaaaataa aaattaaatc atatctccag 120
 ccattgccat gaagtgttgt cttgttttgg ttcttccaag ctctctctct tctctctct 180
 agatggtgta tcaaaatgaa ttcaaagaga tgatctcaag gaccaaatac atgtgctata 240
 tatggtattc taccatcaag gatgcattta gtagccatta ccaactcatta ttggttggtta 300
 taattcatta gtggccatta ccaccatta attcaatttg gcttccaaaa ttgacgagcg 360
 ttcaattttt caaatggt 378

<210> 17701

<211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17701

ntgccatgct gaattatatt ccttttttgc agtgcaatat tgtagtttgg cttggccttt 60
 tcttttgcct ttgattttgg cagtaggtca catggatcct ctttaggaga gagagagaga 120
 aagaaatcaa aggccttataa aataatcact ctaaaaatcc tacaacacag tttatagttt 180
 tatttgtgtg atttaattcc agacaattgc atttaattct taatgctcat gacatgactt 240
 acattgcaat aaatatgtgt ttatggtagt taaaaataaa ctgaagggtt taatatccat 300
 attgttttat ttacatgtat aagtgagaaa atntccagaa attaattcta gagtgatata 360
 ttaatcaaat aatttgataa agggttaatt aattagatta taatgat 407

<210> 17702
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17702

ggagancatg atgagtcgat agcangnccn tnggtagaat acaacgcgcc tatttaacta 60
 tatatccact ccatttatatt tttatgcaca cgcacgcagg gggggtggat ataagataac 120
 acccaciaaag ggagcacgaa aatagacaaa gatatgagta taaacaggga tgtcacgtgc 180
 gggatgggag ggaaatgttg tggaatgatc tgccaataga acgggaggaa agtcatgaca 240
 atttgagcta aatacgaca tataagaaag ggagataaga agataaatag aaatagtgag 300
 cgaaaaagaa gtgaagcagg aaacatgaaa tggatgttta gagaagataa aagtcataa 360
 ggaacatgca aatatagaag aagaatagtg gacactaaac ttagg 405

<210> 17703
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17703

gagtgattgt gatgagtcga tgacgactgg taaataaccc ccgccaatcc ccnaagattt 60

actagtgaat gagtttttatt ttttttgnaa gtaatataac ggggggggtg tgttgtaaaa 120
atcccccccc ccataatcag tgaagagata atggacgtga gttatgcaga gatgtctaga 180
agtagttgcg ataaggagag actatgagtc ggatagcgcg tatgaaagag agcagaagtt 240
aagaaatgat ggggaagaaa aagaaagtat atgttggcag ttgagatagt tttcagcagt 300
gacataaagg taaatcatta ggggacaaaa gaagaaggaa ttggagcgac aagcggtag 360
tagtgtagtg taagcgagtg tgatcagggc aaaaacaaca ggtaatatg gttaagactg 420
atgaacaaag ataag 435

<210> 17704
<211> 666
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17704

agggggcatg atgacaggct cgnacannca caatttggtt naganganca nnnccgcgcn 60
gnattantta nanactatat cataaggagac caccaatatt atgttagtcg ttttaagaaga 120
tagacgatca aagtggagga ggggtgtgta gtattataat atatcctcgc acctaataac 180
gcatgaagtg aagtagatga gaaatagata ggagaaaagc acgtgtcata attgacggat 240
atcagatgca tcgtgtacta tgaaatacga gaacagntac acgagtgtag cgatgagact 300
acgatacatt atatgaagta agtacacata ctacaagaat atagtcagcg acatatatca 360
gatgtggtag ataaactgat gttacagagt aaatgtagtc atgaggttnt acaagatata 420
cggacaatga tgtgtgtaaa tcgatatcat gtgtntacga cgatagtata nngttagtga 480
gaatgtatct atagaggtag taacatttgt gtagagagac taatcggatg tgaagttaac 540
tatacgaga gatgatagta tctacgttgg atacgacgag tgacgcggta cgagtactgt 600
actgtgcntt gacatacaca tgagtgatga ctagaagacg agtatactat agcaaaatta 660
catatg 666

<210> 17705
<211> 533
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 17705

```
gcgtanattg atgcatggat cgnactannc cnttnggtaa ggnaaccccn cccgcgnctc 60
nnnnatnnng agtaaaactaa tctaacagag agtctctttc tntgtngtng accnacacgc 120
tcctgagggg aggggtgttta tataactaaa taactcgcca caacgaatat cggtcggaaa 180
tgtaaattgg atcaaacata agtgaaacga tgaacgacgt atgctgacat cgggcataga 240
tggtatgagt aagtaccgtc gagcagctca agggctgcac tcatagatac cgagactaaa 300
tatctgagac cgaacaacgt cgagcgagac ggcgaccgc gacaatatga cactacaagt 360
atacgaccat tatgctacga gatgccaaat ggcaaaaaat gacctgaaa gagtaacttc 420
gaaactaaga atggagaaga cagtacgcga gaatcatgtt ataaatactc ggagagacac 480
gactgtacaa cgaacctcgg agagagacac agtctcaata ttaggcgaca gtg 533
```

<210> 17706
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17706

```
gaggggatga tgcacgatg acnnccntna gtaagaaacc nccgcggatc ctatgagtac 60
acattgatgc ctgccattat tttttaatcc cagaacggcc cgaggagggt tttttactaa 120
tgaatacacc aaatcaccaa gtaaaacatg tcattaataa tatgcggaaa atacaaatta 180
actcatactt catatcgctg ccaacatgag aacggttgtt tcggacaatt ttatcaataa 240
atatactgta ggatacagcg ggggtcccagc gatgctaact agatgagtga acggaataaa 300
taacaggact aaatatggaa acataccatc tgtgaagcat gtagtaaaca ttaggagtct 360
acattggatg agataatgca ttagaggcca ttaccacca tcaattcaat atagcttaca 420
aatatgcgag cgtgtaatth acaaaatgta agacg 455
```

<210> 17707
 <211> 236
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17707

gcatgctgat gtgaacctgt gacnccgcaa tattataaat tttttttttt taaagggggg 60
 gtttgaacc ccaaaaaagg aaaaggattg gatgatagag aaaattgaga attggaaagg 120
 gaagtatgta ggggggttgg gccagggatg aagaaaagag gacgggtata gtgataagtg 180
 aaggtaaaat gatagtggaa ttagatgata tttgaatgga aaatgagaaa ggatag 236

<210> 17708
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17708

gaggatgtgc tcgtgacnnc ntagtagnac cgcgaggaa nattactaat aggagatat 60
 aattttgcac caagaaacgg ggggttttta taattcctcc ccaatccagt aataagacaa 120
 atgtaaaatg tgaaatgagt caagaagaat gtaaatgaac gtattgacga ggatgatatg 180
 taggggtggaa tgttttggtg aagaatatga agagaaacag tattagggaa tataaaaagg 240
 aatagaagag aaaagtgcag agttagaaaa ttagtaagaa gaaataagga atggaataga 300
 gttaatggga agaaagcaag agtagagagc gaaagaaa 338

<210> 17709
 <211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17709

aaccggaccc caccccaaca tgaagccgca cagggacaag caaccacaaa acaaacnaca 60
 aacaaagagg acnntttgag cgtcgtagna caccnccann aaaannaaan accgcgggna 120
 nananagagc caccaacaga ccgaaatctt aagaccacaa caaaccacgg ggggggcaac 180
 ccacgaacca cccccccac cgaacaaaaa aaacgcaaag acaaaccacc agcgaacaca 240
 caaagaacaa ccacacacaa aaaaacacaa caacaaccgg caaaacccga aacacaagac 300
 aaaccaaacc acgagcacia ccaaacacag agaccaacaa acgcaagcca ccaacaacaa 360
 caaacgacac caacgcagaa ccaacacaca aaccacacca accgcaaac aacgccaaga 420
 cccgacgaca gcaccacccc cacaccagac aacacaccca ccaccaccca accacaaccc 480

ccg

483

<210> 17710
<211> 243
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17710

gggtgtgtgt gtgcatgtgt acacncctct tgatcattgg catttttttt cgaggagggg 60
ggttttaatc caacatcggg ggaggataat agggaaacgg atcgtgggta gcgataagag 120
gtcagggaca tggtaaactg gactatgatg aggctaaggg tgtgagagag ataaatagaa 180
atgagacgtt gtgtgacatg ttggtatcgg agtagttatg aggaaagggt aatgttaatt 240
aag 243

<210> 17711
<211> 766
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17711

tgtgaggaan cgntgnattg gacttcggca gtaccgatta ggaacnannn ccncnatnna 60
naatttttgt nganacgnan ccncncnnnt gtnnnntnnta ntcntgacga taccgcatca 120
ttgcgagaca tctttttttt tcttatatat taccaacgca tacgtanacn cgccgtggag 180
atgggcgtga gtgctagcaa tacatganca tatntgcctc tacactcgtc gatctacatc 240
atctgcgtac tcgtatgacg ttatntacac gcatagtatg atattatgcg atcgcaatgt 300
atacgcacgg acgcatcaga tatgtcatg atgtatgtga tatctggata tgagtgcgc 360
catataacgc cagctccaac acgcgcgtgt gtctacagac gtgatcatct agttgtagta 420
ggteggctnt acnaactgag ttgacagtct cgagntgaca tcacatgtcg caactcgtgc 480
ggtaggtaga cgcgcgacat acgtcgatga cgtgtgatga cagtctacga cggcacgtca 540
ctagtgaact tagtgangng tctactactg actcactaac tctccctcgc acattaacgg 600
agtacntagt catangacag atcctgatcg ctgtgagaca gggagacgat ngagttctac 660
tggnagntta cgagctagtc acgccaccga tcttatacta ggnagccgcc gaactgtgac 720

acggtatact ataactggct cgcctcgtct cgcgatatta cgccgt 766

<210> 17712
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17712

ggggnatgtg catgatcatc ganactcaga aattgtaaca nccacccggg atcctcagag 60
 ttacctgctt tgttgaatta ntttcaccgc cgccccggga gacgggtggtt aattggaccc 120
 aattctcaca tgatgcacct aaaacgtttg aattgggttcg accatgactc tctgaattac 180
 ggccgggaaa tcagtgggag gagggacgcc cctgcaattt gcacaacatg catattggaa 240
 ccctttatgg tactaaagag ttatcccggg cgtagtctga agaaactaca taagtaatag 300
 aaaagtgatt ttgggtaagt aacgtgataa cacatcgatc ctaatttaca ccgaactaat 360
 catacacata tataggcagg agtgagcttt atctggcccg cgaggcgtga gaagctccta 420
 agtctcctcc cc 432

<210> 17713
 <211> 120
 <212> DNA
 <213> Glycine max
 <400> 17713

tttatcatcc tctgcatcat catggaggaa aatcaccata taaggacccc attgaacctc 60
 agagatccaa cctccagata gctctccaag cgagctttca tcaatatttg cgtgctatct 120

<210> 17714
 <211> 375
 <212> DNA
 <213> Glycine max
 <400> 17714

ttctttcttg tactgatcaa gacagttgga atgacgaaag ctagttccac acatataggg 60
 acggcaaccc ttgtcatgag aagaacaaag aagaagaaca gcattgtgtg gatattccat 120
 gcacacagaa catgtaacat ctcccactc tttcttttcc aaagccttag aacatttggt 180

ttggcagagg tcttcacaaa tgtccctttt gcaagaagcc agtgggtatg gagtcactct 240
gaattgacga gaagcaatcc tgtgtcttcc cctgctacct tttgccattt ccgatattcc 300
aacagaatct ggaattttaaa ctgtcaaaat gttatcaagg aatctaaatg aaatgcattc 360
atatattttt tatgt 375

<210> 17715
<211> 377
<212> DNA
<213> Glycine max

<400> 17715
tcgacgacgc catgcgcgct ttatagttgt ttttgttcga cttcaactgt caccaaacia 60
cactcgcatg agttagctcc attgttccgc ttcttttatct tcttttttta ttattatttc 120
tagttgagtt cacactataa ctgttgtata atattagttt tggttcacca actattatac 180
atcaaattct tttataaaaa ttacataata ataaaatcaa taaaataaaa tatgaaacca 240
tccatcacca agtaccaacc aagcaactca tctaccacgt cacaatactt aaactagaac 300
ctttggcttt ttctagttac tcattcatgt tcctatactt gctttcactc tatatataag 360
gttaattatt aatttga 377

<210> 17716
<211> 239
<212> DNA
<213> Glycine max

<400> 17716
gttgggtgttt tatacccacc gcacccaaaa atgctaaagt tgctgtatga taaaaaaaaa 60
ttatggatat gctataaaac ggatagtata atcgcccgga gacataaaag catatgtact 120
aataacaatg gacatatcct caaatagtac aggtaagcat gataacagaa aatataatat 180
taacatgaaa aaattttggt tcaaaagtaa aagatagaac ctcttggaat acaatttaa 239

<210> 17717
<211> 754
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17717

aggantgcna nnnanttngg attggangtt ngccccgatag gnnacnacnn ccnacnnata 60
nnggatttat gtntgannca nanngccngn nancgcaana ntanananan agaaattata 120
cttctangcg atgngantga gagatngttt ttgtatgtgt gtatagtnan gataaataga 180
agcgtaaagg agggcggggtg ggtgtatata tatagtagat tcatcatcca ctattcgca 240
gtaagagtac gaagataggt atgtggaaca atttacgtgt ctgtgagaga tatatagtcg 300
ttatatatgg acgtatggca ggatactcta tagtgtangt gcgataccgt tgtagtagaa 360
gtagagatgt atagaggaat gagaatatat atatggagng tgataatgtg tnaagaggct 420
gagaatgata gaagtgtaga gttagaggat gtanatataa ggatgtagtg tggtagagta 480
tagaagttag agacgtagtg tgatatatag atgtccggaa gtacgtgtaa gcggtagtag 540
attcacgact actaacangc tcgaatatat ggcggtcaga tagttacgtg ctgagtatng 600
tgtaagatga tntgaactcg agctatngag atcgataatg tgtatangat gatgatcaga 660
gnggtagaaa catgctgtgt agtaagaagt gactgtatgc gcaggaagat aagaagtaac 720
ttgactgtcg atgcgacgat acggcgtata tagg 754

<210> 17718
<211> 436
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17718

gagatttgat gcttgatcac tgcaatcgta agtacaccgc ccccnacggt tctctacgac 60
gaacgcttta tttatttctt ccattctccc ggggggggtg gtatgcataa aacccccct 120
cncatccacg gacattaaag actattgata atacgatcac ttaaggagaa cattcttatg 180
tgaatgattg ttggtaacga ataattgccat catcatctca ctattatggt tcaatgagct 240
tgaacaaatt gctaggcaga ggagcttcga aagtgccttt tgcaaaaaaa cacgggtatg 300
gagcatatta gtattgacga acagcacagt gagttattct catctaacat ttcgcatttg 360
cgaagtccac cgacattcgg aaatgacttg ttactgattt taatgtatcg taagaaacgg 420
ctatattatt ttattc 436

<210> 17719

<211> 287
 <212> DNA
 <213> Glycine max

<400> 17719

ggaatgtgct gatgcacctt gtagacaccc gccacatatt ctacaccact ttttttgtga 60
 ccctatgggg ggttttatta atccccctaa ctagataata aaagaagggg tggtaggaga 120
 aataatcatt gtgaactagg agaaatttga aggaaataag tgaaaagtgt gagtgattaa 180
 cataggtttc acgaaacgtc tatacatgta aaaggaactt tttgaatgct atatattcta 240
 tttatttcaa tgtattttaga tcaaaacaga aaaaaaagag aattgac 287

<210> 17720
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17720

aataatgaac atgatcactg acnncnntta tttagnaccc ccacctnann tnttaatata 60
 ttaaaagaat tttttttttt ttgactcaca ncacggggcgg gttggatttt atataaccaa 120
 caacaacttt tgtcactagt atggcttaca gccatgcac attacatgtc tgctaaatg 180
 ggcttatagc ctaaaccata cttcccacaa taaccttggg tatttatcat ggctagattg 240
 ccaccgagt attttcctaa cccatcccg gtcataacc tgtcccaac ataactcggg 300
 ccatcattat cgctgcatca gacacactgg gctgaccaa aatggaattc tcggaagaaa 360
 tgttgaccac ctetaatgac ttgaaagcag ttataacat tgttatgcgg cttccaaata 420
 tagcatggag gataggccac ctatcacg 448

<210> 17721
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 17721

aatcagaggg tgtctctttt atcttaccga gagcgatact cctatattct tgagtgattc 60
 aagaacacct tggtgtgata agaggactct cacaacctat gtgtgtcgcc ctgctggaa 120
 agagtgattc tttccttcct ttcatcatca ctcttgatct ttcaaaccac aattccagaa 180

aatccacctc tgcccagaat tatctcgtgg ccataactcc catggttacgc actcaaatga 240
 agtgattctt gagcctaaat tgaatatcaa acgagacctt tcaccttggt cgcgaccacc 300
 tcactcggag ccct 314

<210> 17722
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 17722

ggatgtgctg tgcacatgta gaccccgctt tagtcttaag gaattttttt ctaaacaggg 60
 gggtttttta ccccccacacc gaaatcgaaa gaggaagcca ataggaagga tatatggata 120
 tggagctaata aatgagattt attaacggag tagaacgagg aaaaataaat tagctgtagc 180
 cccatggaat ttaaagtggg attgggtaat gctcaccgag ctgtattcaa atatatttcg 240
 atgaaaatcg 250

<210> 17723
 <211> 249
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17723

gaatgatctc tgtgcccttg tagaccccan tgtaaataa aatttttttt ggagaggggg 60
 ggggggatgg ccccacacaa ataataataa gatatatgag atataaagtt atttaaagcg 120
 tgaaaggagt aaataagttg gggttgaggag gagagagagg agaagtaaaa aggaattgat 180
 gaggggaagat aaggaatgaa actagaatta attaattaat agtaaattggg ataggagaaa 240
 agatgaacg 249

<210> 17724
 <211> 527
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17724

gatgcnattg atgcatcgat agacanncnn ttgggttaga tancacnccg nogacnnant 60

tngcatactc tcagcatgat agagatatta atcttatatc acacactagt cagacagagg 120
gaggggtgtg tgttaatat tgcacaccca cacatcacac agagataata gtgataattc 180
atgtctcagt cgcagaatat atgattagaa gtgaacaagg gaatgacggc gtagtagaca 240
gatttgtacg aatggaggag ctcgagcaca taatcgttat atagtgtgac tatgtaggag 300
ctctcagata gtacactatt tgctaagtcg caatatacct gatatgtgga caaataatag 360
ttatgaacgt agtgaggtaa gtacgtctga tgtgcacatg ggggtgaactt attatacagt 420
tatatgaggt agttacactg accgactagg tactagggta taaacatata ctccagtgcg 480
cacactgatc atctggttag gatcatgtta tcggtctcta cgatccg 527

<210> 17725
<211> 461
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17725

caccaccca accagccgcc acaagcgaaa acaacagAAC ataaacaaac aacaccaaag 60
gatcgtgtgc tcgtagacac caaaannaaa accncgcggc aaccaaaaan ccaacgaaca 120
aaactttttt aaacaacccc cacacaaggg gggcaaaaaa accaaccccc cccacccccc 180
ccacaacaaa caacacctcc ccaccaccac cacaacaacc ccccaaccca acaacaaaca 240
accaacgacc gacaacacac acacacagcc caccaacca aagacccgc acaaaaaccg 300
acaaaacaca cccacacaac ccaaaaaaaa cacacacaca caaaccgca caaccacaca 360
accaaccaca aacaaccaca accacaaacc cacaaaacac aacaaccaac acccacacaa 420
cacaaccaa aacacacaca accaccaca acgcaacacc g 461

<210> 17726
<211> 540
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17726

gagagcantg atcgattgca ttcgatcgga nancctctta ggtagcnga gcaaccacc 60
nnannntnan anngtatatg taactgtaaa gaanaattta tttcattagt ttgcacacga 120

agangacagg gaggggggag aggtgttata tagaatgtaa cactccccgt cgaggctgag 180
 attgaagata ggtactaaaa ttaggtgtgg aaacgatatt atgatataca ctaagggtgag 240
 tgaaaagatg atgaaagtat gaggtatagg tgagtgtgga gggggcgagg tatagtgagg 300
 ggagaaggga agtgaggaga tgtatagaga gtcagctaata agaggtcggg aagagagaga 360
 ggaggaggga tgggtgagata cgaggaacgg aaggggaagg gaaacgaggt ggtgagaata 420
 cgggagagga atgaaaaatg tggggtaaat gatcgaagag gaatggtgag tataagataa 480
 agagaagtgg ggggtatgata gagtaggaaa gagtgaggcg cgagaggtat ggtgatgaag 540

<210> 17727
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17727

ggcattgtgct tgatcactga canccanaaa tagntaggnn cnacgganaa anaaaatgat 60
 ttaaagaatt tattnatatt agaaggggac aaacgggggg gggggatttt gtataccata 120
 accaatcatg cagctaagtt gatgatataa gggatatagt gaatgaagtg tttagaaggc 180
 gaatgagttg gagttgggat aagagtgaat atagtatatg taagttgtag gggagattga 240
 tgagaaaatgt gttaaatgag tttgggaatt tgtatggaga ataggagtaa ggtgaaaatg 300
 ttagggatat taatatggat ggaggttgag gtaataaata gggtaagaag gagagggaag 360
 tagggaatga ggggtatatac agatatgtat tgtgtggata gggaagataa gagtggttgt 420
 ag 422

<210> 17728
 <211> 228
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17728

gggtgtctga ctgggcgtat gacccccnnn naaatgtgat ttttttacag caggggggggt 60
 ttttgaacaa atgcgatagg atatggaaaa ttgggaagag gaagtatgta gtaagtcaag 120
 gagtgaatgt ggattgagaa taggagaaca gtgtttaagt taagaaaaaa agtttgatta 180

tgtagtatt gaaagagttg atagagcata aattgtaatt gaaatgga 228

<210> 17729
<211> 162
<212> DNA
<213> Glycine max

<400> 17729

ggtagtctga ctatgacccc ttagtaaatt ttttgctagg ggattaatcc ccgatattaa 60
aagagagtat ggagtggaag agaggaaaag ggaattataa taggaatgag aaatatgagg 120
atgaaaaaga gtaatggagg aaagtagata gaaaaataaa ag 162

<210> 17730
<211> 377
<212> DNA
<213> Glycine max

<400> 17730

agcttggaga agggaaacca gaaaatcaga atcatgccat aatctttaca cgggggtgatg 60
cagttcagac cattgatatg aatcaagaca attattttga ggaggtcttc aaaatgcgga 120
atctgttga ggagttcaat atgtcctacg gtattaagaa accaaccatt ttgggggtcc 180
gagaaaatat cttcacggga tctgtttcct cacttgcatt gttcatgtca gctcaagaga 240
caagttttgt gacactgggt cagcgagttc tggcaaacc tttgaaagta cgaatgcact 300
atggtcatcc ggacgtgttt gacagattct gggtcttggg tcgggggtgga gtcagcaagg 360
cctctagagt gattaat 377

<210> 17731
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17731

gtgggacntt tgaaccatcg agagccccc tttggaagna gctccccatt ancaaaagga 60
atagaaatca cacattattg ttcgttgagc gacgccttag agggcggata ttaattagta 120
gtaccatta tatcatagag gaatattgtg acgagatagt atatgatgtg gtaatatatt 180

agcgaatcct ttctaggata ttaaattcttg catgtagact gtctcggaag ataataagag 240
ctagtagatt taagctatga agaggggtcag ttataaatgc acaataactc ttctaataaa 300
atagtgggtgc agtataatcg gtgatcaatt cttcatcttt agcgttgaat aagaaaccct 360
cgatatgaga gagaataatg tgccgtgagt tatagaatat gaattgttga ggatattatc 420
atagggggaa tcggaatgga gatgacg 447

<210> 17732
<211> 377
<212> DNA
<213> Glycine max

<400> 17732

agcttatgct acaaacattt ataatagacc ccctcaacaa caaaaccaac aacaacagaa 60
taattatgat ctttcaagca atagatacaa tccaggttgg agaaatcatc caaatctgag 120
atgggcaagt cctccacaac tacaacatcc tgcccctcct ttccaaaatg ttgttgggtcc 180
aagcaagcca tatgttcctc ctccaataca gcaacaacaa caacagtagc agcagtcaca 240
acaaagacaa caagcaacga ggctcctcct caaccttcct tataagagtt agtgaggcaa 300
atgaccatcc agaatatgca attttatcaa gagacaagat cctccattca gagtttgaca 360
aatcagatgg ggcagat 377

<210> 17733
<211> 415
<212> DNA
<213> Glycine max

<400> 17733

tgccatgtcg tcgtcgttct gacctaaacc cttcctggc ttgtacccaa gcctcaacat 60
tacacgggct accatcaatg cagcactgga tgaacggggt tacactgggg gagactcgat 120
gtcgcaacct acccttcagc gggagggcga cgcgagactc acgggtgcat cttccaagga 180
aggaaaacac gcggagttgc caccaacgtt tattcgagga aaacgtcgga aaaaaccaga 240
aaaggcgtgg tctacgaact ttaagtgtga aaggttcggg agttgtatct atgcacgggg 300
aaggtagtag caccacacgc gtccgtcaca aggtacgaca gcctttaatc aagtgtgcaa 360
atatgacttc aatttgtttt atttcccctt tataggtttt tatgtctttg tatgc 415

<210> 17734
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 17734

tttcttttga atatggttga aactcttgtg ggctgtgaac actactcttc gataaccacc 60
 gaataacttc ggacagcgca gttgaggcac cgctctcttg aacatttcaa acacttactg 120
 tgtagcctag aaatatatgc actacaaaat atgcggtctt agctacgctg ctcctatacg 180
 tagcaggagt acacctgtgc cttaggggat tctttctata ttcttcaaat ggtaagcgcc 240
 caaatccctc acatagaaaa gagacttgcc tattatcagc cgggctgccc aaatggtgta 300
 ctctatgagt cgattagcaa gcacgcatc tgtattgacc gcgtgaaaca ttgttataat 360
 ggagtatgcg atttccggac gtgacctagg agt 393

<210> 17735
 <211> 550
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17735

gacacgccac aactaancac tnctcacaaa tatgacaata aggtgaanat gaactgcgac 60
 cgaccnccac cccccccccc cccaggggn gggnnnttga tgectcgacg tacgaccacc 120
 ananaaactc aagctcgcca agaacgcgna acggacgaca agcacgaaag tatttatgcc 180
 cacacacggc aacgcaacga gaggaggaca ggaacgaaca gctcaagaaa cacgaccaac 240
 aaggaacgcc aagagaaaca aaacagacaa cacacacgag aggagacacc cagagagaac 300
 cacagacgac gagaacagaa ccaagaacac tgagcgagag gccacacaca ctccaacgga 360
 cacaagcaac aagacgcaga aacgggagag gaaaacgatg aacaaagaaa cagcaciaag 420
 acaaagaaac aaacgacacg acgcgaaccc agaggagag acacggcgga cccgagcggg 480
 acaccgccgc agaccaaaaa gacggaggac aagcacgacg acacaccgag gagaagaacg 540
 acggagagcg 550

<210> 17736
 <211> 377

<212> DNA
<213> Glycine max

<400> 17736

agcttgttat tgcatttggg cacctatattt gaatctocta tgttgtacct acatataaga 60
aacagtccca ctctcccaat ttacaaaat catattcata catcattggg gcatttcacc 120
gagcacttgg tgagcgcacg tttggacata aattgcaaga ggatggggac aatgtggcat 180
gccccattgc ttcagaatac agcataggcc taaggccttc tcattcaaatt cctcaactca 240
tgaaaaccat cataaaaaca aacaaaaact gcccacaaa tataagcaca ttctcataat 300
ttggagcacc aaaagatgaa gaaaatatac caatgggaag ctaaaaacat taaggattga 360
atacttactt gtggggag 377

<210> 17737
<211> 431
<212> DNA
<213> Glycine max

<400> 17737

gtggagtttc caagtgccaa ttcgtcctct tcttttttct attcttcttc tggcttcaat 60
tcatcagtgg gctttccttc tgtgtccagc atcttgggat gttcctagcc tttgatgaca 120
gctttccagg ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180
tcatagttag ttccatcaag aattgggtgg ctgttactg gtccgtcttc tttctccatg 240
ttcatcagaa tttatctccc tagatctcac tctgtgattt cgagtgttgg ctctgatacc 300
aattgaaatt ctgataccag gggacagatg tcgtaccgga tgtcacgaca tcacgcttca 360
taacatgcat attgtatgtg tccgtatgaa cagattgaac aagtttataa cacaacgaga 420
attgtttacc c 431

<210> 17738
<211> 382
<212> DNA
<213> Glycine max

<400> 17738

agcttcatga tgatgaacca agcaattttg atgatgccaa aagcccaagt gcttgattca 60
atattgattc aagacttcaa gatcaagcat caagaatcca atccaagatt caagagaaga 120

aatcaagaag caacaagtca agacttcata taggataaat attaaaagaa tttttcaaaa 180
 accaaatagc acagttttgt tttacaaaag aatttttctca aatttttctag gttaccagag 240
 tgattactct ctggtaatcg attaccaatt ggcattaatc gattaccagt gaccagtttg 300
 gttttcaaaa tgttttcaaa tgatttataa ttttccaaaa tgattttcaa atagtgtaat 360
 cgattactat attagtaatc ga 382

<210> 17739
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17739

tagtgcttga ttaattgtct ctgcgcttaa tttacgttca tgcttaatga tcatttatga 60
 gtaattggtg tatgtgttgc ttaatcacat aacgaatgtc ttatgttaaa tttctcttaa 120
 taatttaatt tagggttgga ttaagtgggt aaactgataa aggataaatt ctcgcaacct 180
 aggataagag acttgcttgt gaatcaaggg gaagcaatgc attttaattc taatattttc 240
 tagttcaatt ttactcgttg tgtaatttac aaaagcaaac accccccccc cccaatttgt 300
 tgccatttcc tactatctgt tatgaacatt tgatttatca ttgctcattg ggaaacgacc 360
 tangatcact tcctagttac tacattttta tgtttatttg attcgggtat ggtctcgatc 420
 aatcat 426

<210> 17740
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 17740

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 agcaaaacgt tattgtcgtt tggattagtt cagagcttca gaattcaatt tcgatcgtct 120
 cgatatatta cgggtctcaa tcaaacatct gagggaaaaa gttattgtcg tttgaatttg 180
 ctgagagctt caacattcaa ttttgagcgt ctcgatgtat tacgggactt tatcagacat 240
 ccgagttaaa agttattggt gggtgaattt actgagagct tcaacattca atttcgagcg 300

tctcgatatt ttacgggact caatcagaca tccgagtga aagttattgt ccgttgaatt 360
agctcagaga ttca 374

<210> 17741
<211> 425
<212> DNA
<213> Glycine max

<400> 17741

tcagcttgag ctattcaacg acaatacgtt tgctctgtgt atgattgagt cccgtaatgt 60
gttgagacgc ttgaaattga attttgaagc tgagagctaa ttcaaacgac aataactttt 120
tactcggatg tctgattgag tcccgttaata catcgagacg ctcgaaattg aatgttgaag 180
ctctcagcaa attcaaacga caataacttt tttctcaga tgtctgattg agaccgtaa 240
tatatcgaga tgatcgaaat tgaattctga agctctgagc taattcaaac gacaataatg 300
atttgctcgg atgtctgatt gagtcccgta atacatcgag acgctcgaaa ttgaatgtcg 360
aagctctcag caaattcaaa cgacaataac tttttgctcg gatgtctgat tgaggctcgt 420
aatct 425

<210> 17742
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17742

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caatattact tactgttacg aaaattaatt taagtcttta tggttattta ttcaaactaa 120
ggcgttatac gagtggtttt tgaacgaatt tatgatagat ttgtcattat catttatgaa 180
gcattcagtc attcggtagg attatgcact tgcttaaatt tatttatctg ttgactacta 240
tacaccgcaa ttaattgaga tgaattatat acttggtttt agctggcacg attgcaagag 300
gaccttcggc gcatgaatgc atagaaccaa nagctgaacg agatgctcat ccatgtcaac 360
agtaacta 368

<210> 17743
<211> 383

<212> DNA
<213> Glycine max

<400> 17743

cggaactcgg ccttcattgc cttaacccag ctgtcttggc tagaggcttc ggcatatgat 60
gaaggttctg tggctggtga gatggtcatc acgaagttcc tatgggcagg tgagaggcgc 120
gagtatgaaa gtactgagct tagtggataa cgaacaatca ctgaagcttc tgggtgtagat 180
gaaccaagga ctctgtggta atcctgaagg tatgtcgggg aatgtcttga tcgtgttgaa 240
cgcctacggg gtgaaagggtc ttgcttgggt gaatgttcat cacaagagtg tattggtatt 300
atgggtcgtg atgagtggct ttcttctggt gggtaagct ctttgccgga aaaggggtcc 360
ggacatggag atgggattga gtt 383

<210> 17744
<211> 376
<212> DNA
<213> Glycine max

<400> 17744

ttgttagaac ctataagttc aagagccaaa ggaatgccgg aagcaaaagt gattgcacgg 60
tttaatttat taatgaaatc tggatgaact ctgtcgggtc tgaaggcctt ccaacaaagc 120
aatcagagag cttcaccatt ggccaaaact tccacctcgt ataccttgct aaccccatgg 180
gctttaagca aatgtctgtc tctagtggta atgatgactc tgctgccagg gccaaaccaa 240
tcaagacttc caacaagagc tcgcaagtca tctatctcac agacatcgtc aagaacccaa 300
agaagcctct tcctggggag catcttcttt attagtgaat ctccttgctc gacacttgct 360
agacgaatat tgttct 376

<210> 17745
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17745

ntaaatgttt agactaatcc aagctactta attattttta ttgtatatat gctatgcaag 60
tgaagttgac atcaaccaat aaccataaaa acgtgacaca catgtgtatg ctaattaatt 120

aaacataaac acactatatt gatacatata ctcatgatta acaggaagat gggtttaggaa 180
 ctaagtcatc tgatcaagta tctagcaaga atccattgga cacagatagc agcacgccag 240
 cactttatag ccagaaggag gagttaagaa gcaacaagag gaagaagaaa acaattgatc 300
 acaacacagg acgaataatg aaagaatatg tggagatagc agacaagtta agatggctag 360
 ctgaagctat gataaggcca taacaagcaa gaatggactc aatgaatgac atagagagga 420
 tgat 424

<210> 17746
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 17746
 tttcttgatg gcggtgttacc caccatcttc tcatagaata acaccagtaa cgtgtctact 60
 atcattgtta tcatctccct ctccatcatt ggagggtgctt cttcagctgt cagatccctc 120
 cacctttagg catattcttt gaaagattca tgctccttct tacacatggt ctgtagctgc 180
 cttctatccg gagccatata ataattgtac taatactgcc taatggaggg aaccattatg 240
 tccttccaag aatggactca gatagggttc agattagtat actaagtgac ggctgcccc 300
 ataagacttt cctgttagaa atgcatcaat aatattgcat ctttcatgta tgcacccatg 360
 atcctgt 367

<210> 17747
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17747

teganatcaa atactaacca gtogaaggac gattatctat gaagaacgga cgaagaatgg 60
 caaagaacat tcacggtttt ggttacggaa gcattatgga agcaccttgg ccctgatttt 120
 cttcttcttt ctcttcttt tactaattt taagtgaaat atgcttcccc aggggtgttga 180
 accccttctt tcagcctccc acaccctttt atagccaaaa taggggagga gcttgccgcc 240
 cagctcgccc aggcaagctg gtggcttaag cctgaagtaa catactcgcc caggcgagct 300
 ggttgcttca tgtagaagct tctgatggg cctaactggg cccatggctg aagaacaccc 360

cctaaattga ttagctcacc cccatTTTga gtgtttggct tttttacttc cgaaacgtcg 420
cgaat 425

<210> 17748
<211> 377
<212> DNA
<213> Glycine max

<400> 17748

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gctcgaaatt gatggaagaa aaaaaggag agaatgtgaa ctttgagttg tgtctcacia 120
gactctcatt catcaaagt acaacaagt ttactcatgc ttctatttat agactaagta 180
gcttccttga gaagctttct tgagaaaact tcttgagat agctcttga gaaaacttcc 240
ttgagaagct agagcttagc tacacacacc cctctcataa ctaagctcac ctcttgaga 300
agcttcctta tgaagattcg tatagaagct agagcttata tacacatacc tctctaatat 360
ctaagctcac ctcttg 377

<210> 17749
<211> 422
<212> DNA
<213> Glycine max

<400> 17749

tggtggagtt caaagagaat cgtagaaggt tcttgtctat gatataagcc tacacgcacc 60
gacatgaaga gaaacaccct agaaaggaga ggcagaagtg tgggccagca gcaaggattg 120
caagtaaaag gaactccctt atgtcacatc aacaagagt ttgtcagcgc acgctggatg 180
tgtgaggggt gggttgccat gatccatgat gaagtccctc aagagcaatc aaactgggtg 240
cgccatgcc ctctatggt cgagttggga aattggcaaa ttatcaaaca acccataatt 300
tttgtggcaa acataatgta atatgtgaat ccaaacccta tagctgagcc tcggctcgcg 360
ttagctatta gatatatata aaatataatc tgtcttcatt ttttcttgca ctatcatccc 420
ta 422

<210> 17750
<211> 368

<212> DNA
<213> Glycine max

<400> 17750

ttgcttgtag aatggctaga catgatacat gtcattggtt gggttggttc aaggataaaa 60
gggatgcccc acattttcca tgacacaaaa tgcaaaaatg atgatttgga aattttatgc 120
aaaactgggc atgcatgcac ctatgctggc actcaagtgt caaattttta tggatcatgtg 180
atgctagggt tcaggattca tttcctctat tttagtcaac ccaatgtttc caaaatatgt 240
tcttttatca atatgtgcat tcttccgatt ccattttctgg cgtccgggga aatttacagc 300
attcaccctt caagtgtaga cacgtttttt tcttctaaat cggttatgat caatgaatga 360
attctttt 368

<210> 17751
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17751

tgtccgcana aaatcactag aaatggattt tattgtttta cacctcagtt tttctcacca 60
agtaaaaatg gatcatttta aggtccaacg ccttaaaaatg gccaccttcc aagtaaaaag 120
aatcgcttga tttccgctta aaaaaaaaaa agaaaagaaa gaactacata ggtctgattt 180
cctcttcgat ggagggtatg taggagcaag agccccactt ttgtcgacct caaaaaataa 240
aaagaaataa aagtttagat acactattct aatttaaggc tgttgtcctt tgggacaaac 300
gtgagaggtg ctaatacctt cctcaaacgt aaatacaact cccgaatctg gaatattctt 360
tatgaccggt ttccttccgt ctttcc 386

<210> 17752
<211> 325
<212> DNA
<213> Glycine max

<400> 17752

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cacaatggcc aaggatgcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120

gaagatgtcc atattgcagc tattggccac ataattccaa aatctgaaga tgaaggacga 180
agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
gggagaaagg atgacatatg aatagctggc gagaaagatc ctcagatgct tgcctaagag 300
atttgacatg aaagtcactg caatc 325

<210> 17753
<211> 416
<212> DNA
<213> Glycine max

<400> 17753

gtaaaagatt ggctaagatt ttgttaaaac ataagcactt agacaatgaa ggaaagctgg 60
agttgctgca caagatgtcc aacgttatgt ctaagaataa gatcgggctg cacaatgcac 120
aaggcaagat aaagtgtcaa atgaagaatt gaagctgcag gattcacgat gtctgataca 180
atgtccagga catcctgcct gaaaatactg gaattgctaa aagcattgaa gctgcaggat 240
ccacgatgtc agatacaatg tccaggacat cttgcccgaa aatactggag ttgctaaaag 300
cattgaagtt gcaggatcca cgatgtcgga tacgatgtcc attacatctt gcccgaaaat 360
actgtacata taaatctgtt atatctttaa cagattattg tgcagttagc aagaga 416

<210> 17754
<211> 377
<212> DNA
<213> Glycine max

<400> 17754

agctttgtga atatcaaatt tgaaagatag gggatatatt tttcgtatag taccctttga 60
aaactaagga tcacattata aataaaggat ctacatttga taaagtcact gtatacaaga 120
ctaatacaat cagaagagcc tctcatagta tagtagaaaag gatttttagtg atgattttgt 180
agattacaag ctattgggtct gcggtatggg atttttagtag gatgaaattc acaactgtat 240
ccttgattta ggatagattg caacttgttt tgaagtatac ttgcactgtg ggtattacat 300
ttcctcaaat gattcccaac tcatttttga gaaaaggcaa ctattcaatt atgtttggaa 360
gttacagctc aggtttt 377

<210> 17755

<211> 430
 <212> DNA
 <213> Glycine max

<400> 17755

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tactgtccag gaccacacaa tcttaccac aaatcatccc ttaccactc atagccagcg 120
acggtagggg tggacgacgg tgaccaaca ctcatgctag gtcgaacggg gggagacgac 180
ctcacgtctc cacctccacc aacctacacc cctgaaagca gaaggatgga gggtcacagt 240
aatggagact ggctccctgg aagtagcaaa aggtcatgcc cttccgtgaa ggcgagaagt 300
gccttacta tttttgtgtg aagtcttcac cttgaagagg actcccatg agaagcacct 360
cggtgagtat ccttaaacga caaatcgtct attgagatga tctcttgatc catgatgggt 420
tgctcaatgt 430
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<210> 17756
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 17756

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agcttcgttc actccaagct cagttcctcg ccaatcacca caatcacatg ttgctttttc 60
ttccttcaaa tttctctctc tctcttgtct cttcttttga tttattccaa ttgcgcaaat 120
ctggttggtt gcagttatag caaggaagcg ttagatgtga ggcggaagct tctagaagtg 180
aatccagagt gctacacagc ttggaattac agaaagctcg ccgttcaaca tcttctctct 240
aactccgatt ccgatactca ctctatcttc gatgacgagc tcaaactcgt gtgttctgac 300
tctcgtcggc taatttaatt caatataata ctttcgataa ataattactt tgttttgttt 360
tttctatgaa ttgaatgaat 380
```

<210> 17757
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 17757

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tgtcaaatgg ataaaaggct cacattcact ttcttctaca tcatattcaa acttgtccaa 60
```


ataaataata aagtcacatc gactcaaaga aaatcatata agtctcatac aattaatata 120
gaacctatat cctaattgtca catcctatca gagcgtggtg ttcccgtgtc ctctagcatg 180
aggttcttca tagtcatcca cctattcatc tgctcccccg aacacaagtt caagatcatc 240
acaggatcca aacataacaa cacacaggga gtgagttatc acattcctag ctaatagaga 300
aacaagacaa tcaaataatac atattatata aatgagatac cacttgctta aacatagctc 360
acgtaacttc accacttcat cattcagaat tcacttttta attatcaatc acattacaca 420
agaatcccac act 433

<210> 17758
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17758

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gagctttttc tatgagaaga ctagcaaaga actgagcaag aagaggaagc tatcataaga 120
gcaggagatg agtctatgag tgattgtgag gtttttagagg tggaggagac atccccacta 180
cttgtatttc ttcaatcctt catttttctc ttctatttgt tgtaaaggaa gcttcccagt 240
tatggagagc taaatccttt gttggttctt ccttgtacgt acttgatgta aatacatgta 300
tatctatnta atgatgtttt atgtgttctc tgtgctatca gtacatcatt tcaatgtgct 360
tttgcttga tcatgtag 378

<210> 17759
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17759

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ctccccctaa ctgagacaac attgaatatg ccgactttgt agtgtactac ctagtaggac 120
cctccaatca gaccattga tcttccccag acttttggat ttgcaccctt tccaaagtaa 180
gatgaagttg ttgtatcaat tgagtttctc atacaaatgg ttccctctc cacttggcct 240

cccaagttca cacatcatcc ctccacaact ccattatacc ggataggtat tcagttcaaa 300
 tgagaacccc agaaccatcc cactgaaga ggtacccgac ctcacaaata ggtgagtaat 360
 ccaccataaa gcaaagcaga tgattaatgg gaaaagggaa ggtttaggcc actgaaacct 420
 cgattaaaga at 432

<210> 17760
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17760

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 ggatgccctt gattttctca ggtgccactt gtaacgaccc gcctcgtcgc tacggtatcc 120
 acactttaat atttgataat ttcaattttt ttataaaaag aactccctta atttttgctt 180
 atgaaaatag aagtgatttt gttacaacat aaattcatcc aacaacacgc cttacttaa 240
 gtgaatatac ataattacat agaaacaata attcggtact tgtcatacac ataacgaaaa 300
 ttaaatatgt tcatatatat atataattaa aattccagtt ttacatcttt aactcaacaa 360
 aataaaactt aaaaaccaac t 381

<210> 17761
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 17761

ctttcctttg gttgttctat tagggtttcc aagcgttaga gagaatgaga atagattgta 60
 gtcttaatat cactgtcttc gtgcgagggg aatttctctc tctacagaca ttattttgca 120
 aatcccaaca gtgagaatct gcgaaaatga gtttcgaagg tggtagccaa attttaggac 180
 aatctaacgg ttaatgagtt tgagatcgta attttactgg gataaatttg ggtgtatgcg 240
 agaaaaaggg aggggttttg gagaggatag agagaatgaa tttgggagga aggaggagtg 300
 taaagacata tcgtaattgt aaaaattgac ctaatctgtc tctatttata gctaggggat 360
 tctgagacga ttattttttt ttttttttat aaaaatgaac tctattttac tctttcataa 420
 aataaataac 430

<210> 17762
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 17762

ttcttccatc aagtgggatt ataacacaag agcttcaagt aagtgctcct tacacctcct 60
 tgaattatca actttacctt ctactacatt gcagtttatt catttctctc catgtatatc 120
 ctaacatgtc taggactaaa tggttgtaac atgaatcttt agaatttcca ccgattaatc 180
 ttgctataaa agctaaattt gattttctat ggttcaaaat tcttgttcat gttcttgaac 240
 catgattagt gttgagttta cgtgtctttg agttatgtct tgctatTTTT tgtggctgaa 300
 acctaaacca ttaaattctc tcataaacat taaaggataa tatatcctct caaag 355

<210> 17763
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 17763

tataaaactc agctgagcaa taaatcctcc tacatccatc gtagtcttca ttacttgctt 60
 acccacgcct acgtttgggt tattagggaa aaacaccata cctaaccctg tctaaggga 120
 tccctatcgc accatatcca aatctagaac gatgggtgat caagaggaga cgcaggaaca 180
 aatgaaagcc gacatgtctg ctctgaacga acaaatggcc tccatgatgg aggccatgct 240
 aaatatgaag cagctcatat agaagaacgc ggccaccgcc gccgctgtca attcggctgc 300
 cgaagcagac ccgactctct tggcgactac gcaccatcct ccctcaaata tagtaggacc 360
 gggaaggac acgctggggc acgatggcag cctcacctg agataca 407

<210> 17764
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17764

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 aaacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaattg 120

attatgatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagagaaga atcaaagatt tcaagtcaca aaatgtcaag 240
 aactttttatt ttcaaaacaa ttaccatttt cttgaacata tcctataatt caaagaaaaa 300
 catgcaaagt cgtacgtgca cacaaaattg acccaaaaata ttaaactaaa aatctgacga 360
 aactaacaac attaacaa 378

<210> 17765
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 17765

tcttatccaa ggctcatctt ggtggggaag cttcttcttc catggcttat tcctagtgg 60
 atggcgctc ctctcacctc ttctcctttg tcttgcgctg catctccatg gtggaaaatc 120
 accattaaag gacctcattg aagctcaaag atccagcctc catagaagcc ccacaatcaa 180
 gcttccatca actcctccta agaataaatt ggagttgcaa agcttaatag ggaaaataaa 240
 cttccttagg tgattcatag aaaactcggc tggaaagtgt aaagcttttt caccattact 300
 atagctaaag aagcaagaag atttcgtcta ggaaaggaac aacaagaagt ttttgacaag 360
 attaaacaag tcttggtgtc gcaacgtgcc cttttgctgg cgagcgaaag cgaagctcac 420
 ggggtgcgct 429

<210> 17766
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 17766

tttcttttagc ctttcatttc ttggaagcca tctacatcaa aaaaatcaaa gacacaaaat 60
 tagacaggta tttattcaaa ttagaaagca aaaaaaatc tgaaatttaa actaggcgct 120
 tagcgagatg gattcgctta gcacgactta tgaaaattaa ctcatacact tagcgcgatc 180
 gaggtgcgctt tagcgagtta acacagaaaa ctactctact gcataattgg ctcgctaagc 240
 ccaattccaa aacagaaaac aatttgcgct tagcgcatag ggtgccctta gcgcgacaac 300
 aatactagag aataattggc ttagcgagca ggctcgataa gcccaattcc aaaaattaca 360

aaacaggata gaaatt

376

<210> 17767
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17767

gacctataaa actcagcttg cataggctca ttcaatcact tagtgcacca tatgttnttg 60
gatccattcc ttaaaagccc gagggagtta tgaaacaaag tattaatatt ttgcttaata 120
ccatatcaaa gagaagaagt aatatgtgcc caagtgaaat gatgattggt tgcaactcta 180
gctcacaacg ttaaagccca ttgcacatct gtagaaacta gctcccaatc aagttgcctt 240
gttgatatcc aagaccaatg ataaacctga atttgactat attttgatgt gaattttcat 300
gtcatatcca tgcatattga tatattttat tttggcaaaa ctcatgggtg ggtattaatt 360
tgtgaaagac atgtgcttaa gacgctaaat gtggaaaaga actaaaaatc atgaactttt 420
tcacctaatt agaagatcat agtca 445

<210> 17768
<211> 367
<212> DNA
<213> Glycine max

<400> 17768

tgcttgatat tcacatcaaa gatgcagtta acaggttaag tattaaatta tacaccattt 60
agtctatttt gaactgttaa tatgattata aattgatgat catatttaca ttgatgtttt 120
ttcccaacca gtgaaatgaa gacattaaac agtacttctg ttggtaaatt tcaacaacct 180
acacctcact cgattgaagt aaaggtagt catttaaaca atgctacttt aggacttctg 240
acattttgta actttgtaat tgtctattgt taaatatatt tcatattcaa tttagagtca 300
tgttcatacc ataggctatg agtgtggcta ttatgtcatg cattggatat tgaacatagt 360
cagtggc 367

<210> 17769
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 17769

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gtngaaaata gtgttttcat tataatgctt cttatgcttt ttcctcaaa aactactttg 60
ttttaacttc tgacaaaagc actagaagaa acttttatgc ttttattgct ttcctcaaaa 120
cacttatcca attataataa aaatcttaaa caagtttttc aaatcatcaa aacacttttt 180
tcttttcttt taaaaagaca caaacaaca ggccttaaaa tgagaattct ttagttcatt 240
tccactagct ttctggctct catgaacatc taactcaaat tcaatgggtt tatgaaggaa 300
aaatgccaga atcatctcat attatcagac acgatcccaa caggctagca ctgcaattca 360
taaataagtg ctataatact gcagctattg acaagctcgc tagtcttcct taacatgtac 420
gtcttctg 428
```

<210> 17770
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17770

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tttctttaag ttnggataat tctgagaagt ggttaaagtc catgaaagaa gagataaatt 60
ccatggaaca taatggtggt taggaccttg tagaattacc aaaggggttg aagagagttg 120
gttgtaagtg ggtcttcaag actaaacgta actctcatgg caaccttgaa cattacaagg 180
ctagacttgt tgctaaggga tttactcaga aagatgacat tgattataaa gagacctttt 240
caccggcctc acaaaaggat tctttcatga ttatcatggc attaatagcc cattatgact 300
tggagctaca tcagatggat gtgaaaactg cctttcttaa tggagattta aagaatgttt 360
gtatggacca accaatgggg 380
```

<210> 17771
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 17771

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aaaagttgat tatatattgt gagaccatgt gttttggaca ttatctttta ataatcagt 60
caagggagta atgatagtag catagtgtca aataaattga cagtaaaata ttgtgaggcc 120
```

caagaagctt cgaagggtcg agagagtttt tggatgggtg tcacgcacaa atagtgacaa 180
 cttattaggg tttggctgca cactttgagt tgtaatgaca tgcccaaata gtcaacagag 240
 tgaacaacta acaaacattt actcattttt gcataaaaag aattatcaga caataactgc 300
 aaaataatgc ataaataagt gagatgttct gaataattag cactataaat tatgatatca 360
 ccaaagaata ccaacacaaa atgcctcata taaggatgta gttgtcgcaa cctacctcac 420
 gacgggactt 430

<210> 17772
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17772

tgcttcttcc ccgaagcaca taacctatca aagatattta gtagcttagc tatgtttctca 60
 tctgggtata tatatatata tgtatctata catatataaa ataatcatat ttgcttgatt 120
 ctaatatcca tttccttttt cctcaattag aaaataacat acttaaaatt aacatttttc 180
 ttacagacac taccaatgta ctcatccgca ccgacggagg cctactgata agcctacagg 240
 ggcttcttac aaaaactaat taatcctaca gatacatttt cattaaagtt tcagcacata 300
 ataatcatca tagcgctttt taaacagtta anaatatata gtagaacata tact 354

<210> 17773
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 17773

tggatacttt attttatggt tgatgcattt tgctcttaag caaaaattta tatttaaact 60
 actcattact accattagat ttaataaaaa tacaaagtaa ctcaaaaaaa ttaatcctta 120
 gagagtaact taatcttcac aaatgatttc tccccacaac ctataaccaa gtaaaattat 180
 agcctgagtt taactgtcac aatataaaat aattttccag ttattcaatc acaaaccata 240
 tttattatga ttttttaaata aattttataa aaataaataa atatatcatc cacatgatgc 300
 agttgaatgt cagcataaaa ctacttctct tattgtctct attgcatttc attttacaag 360

cattaatgaa atacaaccaa aaacgatacg aaaataaaat tcttgatgct cattgaacgc 420
 ttta 424

<210> 17774
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 17774

agctttgagc caaaatccta actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
 ttaccctcgg aagcaaaaaa gaagagaagg aaaatttcca atcaaagaaa aaataagaag 120
 gaaaattccc aatcaaagag tgggagaaag caaaaagaaa agaaagaaaa ttcccaatca 180
 aagaatggga gaaaaaaaaa aggagaagaa gaagaaggaa agaaagctcc tgatcaagga 240
 tcgaaagaaa acagaagaaa tgtgcagaga ggtctttgga ccagacaata tctgaacaat 300
 acggaattgt caccaaata acaaaagaaa gaaaaggaaa ccataaccta taagtgggtct 360
 tctccctttg attacca 377

<210> 17775
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17775

cctatggact gagcaaaaag gctcaagtca tcaaatacta ctcatctttt aaagcacaaa 60
 gcgaggattg gaacctcaac cctatgttct tttaaaagac tgcaatgaga aaattacaga 120
 ggataggaat ccctggggga aaccaagaag aatacacaaa aataaaaaca tgcagcgact 180
 tccttaattg ccccaaattt taagcgtagt atcgcttgac aacgtcggag ttcacgggtg 240
 aagatagctc ctcgttatcc atgttgccga gcaccagggc ccctctagag aaatcccttt 300
 ttacaatgaa aggaccttcg tagttcgggg cccactttcc catatgtctt ccagagcttg 360
 ggagactttc ttcagcacca agtcccttc gctaaacctg cgcangcgta ccttcttgtc 420
 agaagc 426

<210> 17776
 <211> 377

<212> DNA
 <213> Glycine max
 <400> 17776

agcttgtag aacaaggaag cagtccattt gagagagttt cgccttagga tataaatagt 60
 taatgtatta gaattaaaat taaatcattt gaatattatt taaatttaag aagagttaag 120
 aaaaaaaaaat cttaaagaac agatatacat gaatctacaa accgtacggt ttggtgcaac 180
 catcagtcac gttttcaacg aaggccgaat aaactatata tacataatac atggcgtgca 240
 tttgtgtcaa agctctcatc caacaaaaga aatatctttg cttttgatgt gatatttcac 300
 ttgttactac ctttaaggtc gttttcaagt gcatataatc atgtttatcg atttcatttc 360
 ttttatttta ttttctt 377

<210> 17777
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 17777
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 gtaggaacca ttagcctagg tgacatctgg taaataacca gattgagata gtttggtgtg 120
 gccatgacta tagttctaata agcagccatg atattaaaag tccctttttg tcaacctaaa 180
 ttcagtttag ttaaaaaaaaaa ttcagttccc ttctccctaa tttttatctc ctgtttccca 240
 cttttttctc caatctctct tcattatctg attttatttc aatgattcaa ctctctccat 300
 aacttttcct gacatgttgg aattttcttt aacctagtta gattgaagac gaggaatatc 360
 aataatgagg cataatatat tgctaaata tagttcattc tataacttcaa attaaaattt 420
 gcaaaccttt g 431

<210> 17778
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17778

agcttgatca aaacaaacat ctaatcattc caatccactc aattcatata ttttctcaat 60

caattcattc ccaaaaaactc atttcatgca aaacaatcca ttgcataaca ttttcaatca 120
gttcaactggt caaacaagct ttttgtacaa gcagtcaaac aactacacta caactgaaat 180
ttaaataact gaaacataaa gactaaaagt taaatgattg aacataaatc ataaaaataac 240
tgaaataaac taaattgttc aaaatgcaca aattaaaatg tcatgctcct gtgattgccc 300
ctgtgcatgc ttattgagat ccaacacctg aactgtgaca tcctggaaat ttctaccoga 360
aattntgtaa acgatatatt 380

<210> 17779
<211> 424
<212> DNA
<213> Glycine max

<400> 17779

tcatgcttat gatttatact ggtcataaag agggagtgtt atatgtagca cataggcaaa 60
taccttcacc aaccatagtt atgatgaatg atttaaatta gcatgggatt aggctgtaac 120
atagctacct attggctctt aatgagctcc ttgattaagt gtaattatac tatgaagaag 180
ggatcagtga ttaacctaga gagtagagat atacaatttt tctcaatctc aagatctctt 240
tttacattaa tgatgcacaa cctaataatg ttttctttgg gttctaaggg tttgggcgag 300
aagaccacc acttcacatt acttgatggt gagatggtta ttgatacatt gccagattca 360
cagaagcagg agagaagata ccttatatat gatatgatgg caatcaacca agtatcaata 420
atag 424

<210> 17780
<211> 379
<212> DNA
<213> Glycine max

<400> 17780

agcttgccct tgaagaaaat ggtcgatgcg acattaaata aatgcattac atgcacatac 60
ttcttcatgt tgagaaacca ctctccatca ctagtgtgtt aaacactact atatgaagcc 120
acttcctttt atgtctgagc aggtctgtgt agaagagctc ttcttttgat ggtgattgag 180
gaattttaga acttagcttc atttattctt cataggattc aaaaattcct aggagaatgt 240
gtctgcaaaa tagatttcaa acacatggta ttaaataatc ttaatttgt atcaaatcat 300

aattttatct tgctatcatc tgaacatca gacatcgact tcacaaatca tgttccgata 360
gtgcatgaga cataactct 379

<210> 17781
<211> 112
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17781

tctaaacttt atacaagaat gaagctctga taccacttgt tggacaagtg gcctcacata 60
tcttaagaag gggggggggg gggatgaatca cnatcttaag acttatttcc cc 112

<210> 17782
<211> 379
<212> DNA
<213> Glycine max

<400> 17782

agcttgacta ggcgagttga ttttagcctt agtttcactt tagttattag tcaattcgat 60
taagaatgag aaatcccaaa gagaaaacgt ccgattgatt ttccgcttta ttttactaaa 120
aaaagatggt ttttgattat tatatttttt ttatctcttt ttgttttcca acgttggtac 180
ggcatgaccg aacggtcaga attcatttta accgaagtta acggataata caattcaaac 240
gatcggtgga aattttatatt atttttaagt taagcgagaa atgacttaag taaaatggct 300
taagcacgtc aaaagggggg ataaaaagta aatgaaatga gaataaaaat atacgaaaca 360
caatgtggac cactatggg 379

<210> 17783
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17783

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acattttatc tatatacaat tgtttggtgc ttgcttgaat cttgatttca ggtattgtat 120
tgtcatcatc aaaaaggggg agattgtaga tgcaattggc tttgatgttt tgatgatgat 180

catgatgatg tgttgcaatt gatgcaaatt ggcttttcaa gattaaaatt caagacaata 240
 cttcaagatt acaagtcaca acatcaagat gatcactaga agattaggaa gggaattcct 300
 aattgaatta gcaaagggtt ggccaagtga tttaaaataa aaagtgtttt tcaaagcttt 360
 tactctctgg taatcgatta ccagaggatg taatcgatta ccagtggcca aatacgtnnt 420
 ataacagcta taa 433

<210> 17784
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 17784

agctttgggtc ctattcaaatt agccataact tttgacatgg gggtagcatt gaggcccatg 60
 atatatcgag aggctcgaaa ttgaaaaatg gaagttctcg agaaattcaa atggtcataa 120
 cttttaactt ggatgtccga ttcacgcaca taatatatcg agacacacaa aattgaaaaa 180
 tggaattctc gagaaattca aatgttcata acttttgctt cgaatgtcag atttaggcac 240
 ataatatatc gagacgctcg aaattaaaca agaaagctct ggtccaattc aaacggccat 300
 aacttttgac atgagtgtat gattgaggcc catgatatat agagacgctc gaaattgaat 360
 aatggaagtt ctcgagaaat taa 383

<210> 17785
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 17785

agcttcaacc aggggagatg gaccatttca agtgcttgaa agaattcttg acaatgctta 60
 caaagttgag ctgcccgggtg agtataatgt tagttccacc ttcaatgtct ctgatttacc 120
 tgtttttgat gcacatggag aattcgattt gaggacaaat ccttctcatg agggagagaa 180
 tgatgaggac atgaccaaca gcaagggcaa ggatccactt gaaggacttg gaggacctat 240
 gacaagggct agagcaagga aagccaagga agctcttcaa caagtgtgtt ccatactatt 300
 tgaatacaag cccaagtttc aaggagaaaa gtccaaggtt gtgagttgta tcatggccca 360
 aatggaggag gactaaatga caccactttg gttcaatttt agagtgttta ctta 414

<210> 17786
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 17786

ttcttctcaa ggaagttttc ttaataaagc ttctcaagga agctacctag tctataaata 60
 gaagcatgtg taacacttgt tgtaactttg atgaatggga gtcttgtgag acacaactca 120
 aagttcaact tctctccctt tttcttcctt caatttcatg ctccccctc tctctttctc 180
 tccctctttc ttttctcca ttgaagcatc ctctccaagc ttcttttcca aggctcatct 240
 tgggtggtgag gctccttctt ccatggctta ttccctattg gatggcgctt cttctcacct 300
 cttctccttt gtcttctgct gcatctgcat ggtggaaaat caccattaaa ggacctcatt 360
 gtagctc 367

<210> 17787
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 17787

tatgctgcaa acatctacaa tagacctcct catcctttca gcaaaatcaa ccacagtaga 60
 ataattatga cctctccagc aacagataca atcccagatg gaggaatcac ctgttagaca 120
 aatggcctaa gttatcttaa gaaggggggg ttgaattaag ataacaagaa ctattcccca 180
 attaaaattt tactctctct ttttagatta acaatgcacc cttaacatga attactcaaa 240
 agacaattca aaataaactt ctttcaagcc aaagataaat agcaataaat aaaagaagtt 300
 taagggaaga gagaaatgca aacttgattt ataccagttc ggtcacttcc tgtgcctacg 360
 tccagtcctc aagcaaccca cttgagattt tccactctct ttgtaaaatc cttttacaaa 420
 gtctg 425

<210> 17788
 <211> 322
 <212> DNA
 <213> Glycine max

<400> 17788

agctttatga tgtggatgca taaagcgcggt ggcaatatgg ccgcaatcac catgaactat 60
ctatggacca actctgtcgc tgaggaacat gacactggcc caataatgtc gatatatgaa 120
taaaagctct atctgggtga gtggatgcct ctatggcttg atatctatgt gtgagtcagt 180
gcatgtgtgt ataagatttc tctctaggca taccatacac aactctttat acaaaaatga 240
aaccacctga attattagcg aggcacagct tgcccatgat cttattgatg gcactagcta 300
agagatcttg tgctagagat ct 322

<210> 17789
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17789

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acgttcacat atgacaatag tcactcacca tagcgtagac atcttgcgat actgcttggtg 120
aaaaatgcta tccactcatc gcagctgggtg atcatgacac aatgctccat gactagagcg 180
caatgtccag cctctccacc gcttctaattg cgattcagaa gacttgggat tgatgtgaac 240
atatcttcgt tagaagcgtc tccactcatc aacgctcagc tgtttatgtg gcacgcgttc 300
aactcaagat gtgaatcaat acctctgtgg atggcacttc attatgctta gcatataata 360
tactcatcgg agtgcattac cgatggcttc tgtagatgac aactagacta gctgtatgtc 420
ctatgttcn 429

<210> 17790
<211> 377
<212> DNA
<213> Glycine max
<400> 17790

tgcttgcaca acaagtaact aattctatctt ttacaaaat gaaataacta actaactaac 60
taacttccac taatatatag agcgactact cagaaagaag ggatgagcct taattaatcc 120
catctaatat acctaattaa actaattaca caaaacaaag cccaattcg cagcccaatt 180
attcaagtgc ggagattcta acttccaagg ttaatttgac cctctaaatg gcagaattgg 240
ccaaagctta ttggtgaaaa aatagaatat ctttttgcta tctttctagg gactaccac 300

aatctccatt ttgagttatg tagtgctgctc taggatctac acaaggaaaa taggtcaagt 360
aaccacaaaa atccaaa 377

<210> 17791
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17791

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aacacagtta taacaatgga gtagcaagat ataagtatca gagtagtaaa tacaataagc 120
caaaaccata atcaagaaat aatcaaacca aaattcaaag atcataaaat gtcaacaacc 180
acaaaatatc caagactaaa atttaagaac acaaaaataaa taagcaaagt acttagcata 240
ataatgtaaa ttctaagaaa ctaaaagcca aaatacacgg cttataaaaag ataaatattc 300
agaatctaaa atctaagaag acggaggagg tgggtggaaga tcgaaactct gacgaatgta 360
tccgacatcc tcttcaagct gtgtaagacg aatgtccata ccggcaaagc gtgaatctaa 420
cgagtcaaag cggg 434

<210> 17792
<211> 359
<212> DNA
<213> Glycine max

<400> 17792

ttgtcttttag acaataggta agggaaatct tatcttatgt tctattgctt aatctgattg 60
gatgggttgt gtatgctcca aagcatgttt gattttctat gggtttatgg aatttggtgt 120
tggattgcct ttagagtcct ttccctttgt atgcttttga tttgagaatt cttgatggaa 180
tcttgatatat gtttaattga ttgctgattt atgttttttt ttggacttgt gttgagttct 240
gagtcattta tgagtgtctg gaggggttgg gagtgatgaa aatgcgttta tgttcacaag 300
aaccctgaaa ttgcaagttg tagagtttgc atacttgcta agcaagacaa gctcattgt 359

<210> 17793
<211> 429
<212> DNA

<213> Glycine max

<400> 17793

taacaatcct tgtgatctat tacaggatat ttctattcct atcacatagc ttgcatcact 60
catatccttc atttcaaagt tactagaaag aaactttctta gtctcatgaa gaagaccaag 120
atcattagtt gcaacaatat atcatcaacc tacaggatta gaaaataacc ttactcccac 180
tgaccttcag atatatacac cgatcaacag tatttttcctt aaatccaaag gaaacaatgg 240
tatcattaaa cttcaaatac cattggcgag aagcttgctt aaaaccatat attgatttct 300
ttaatttgca caccatatgt tcctttccct caactgagaa ccccatgtgt tgatccatat 360
aaacattctc ctctaaatct ccattaagaa aggcaatttt cacatccatc tgatgtagct 420
ccaagtcat 429

<210> 17794

<211> 379

<212> DNA

<213> Glycine max

<400> 17794

agcttaaagt atgcccagagt cattcatccg tatgagatgt tgttgaagta ttggcgatca 60
gaattgacat tccttgatt ataggggtga accaaactca tgcttttaca aaaaggttca 120
tcaagtcaag ttgaaatatg gaagtaaccg tcctgcaaaa ttgggggcaaa agatgaattg 180
agtcacatca ctgcttcgtc tactgcaaaa catatttagg attgttgatg tccttgttac 240
ttccagtttc accttgacaa agatgtcatg gatcatgttg aaaatctaaa ttgattcaac 300
cccatatcct gcgtaaaaat tcgcaatact tcaactatac atcattcgca tacatccatg 360
cttttcattg gttgcattg 379

<210> 17795

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17795

tgctcanag aggtccagga aagacaaggc ggtcgaatga actatttccg ccccgagta 60
cgacagtcac cgctttagga gcgttgatga ccagcagcgt ttcgaagcca tcaagggatg 120

gtcgtttctc cgagagcgac gcgtccagct cagggaggac gagtatactg atttccagga 180
 ggaaataggg cgccggcggt gggcaccact ggttactccc atggccaagt ttgatccaga 240
 aatagtcctt gagttttacg ccaatgcttg gccaacagag gaaggcgtgc gtgacatgag 300
 atcctcgggt aggggtcagt ggatcccggt cgatgccgac gctatcagcc agtcctggg 360
 atatccgatg gtattggaag agggccagga atgtgagtat ggccagagga ggaaccggtc 420
 tgatgggt 428

<210> 17796
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 17796

agcttggtga tgacttgctt aaatatatga agcttgagtt caacttggtt agtatgtata 60
 tagcttgatt attttcattc cttttatcaa atctctcaaa gtatttttta agtttaataa 120
 tttggtattt ttacactaga ataacgtcaa aatagaatta caattttaaa agtaaaagaa 180
 gtaattaagc ctataccttt tgtatgcaac attttcattt cttttaaatg aaattttact 240
 atctatatga agggaaagta gcactatgcc ttttgtctca actctcaagt ctaaagttgt 300
 gccgattaat ccctaaactt taactaatgt cccatatatt ctttcatcaa tatgtcattc 360
 tagattctt 369

<210> 17797
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17797

tgtgcgaatc aaatcactcc tgcattntat ctctagcatg cattttttct ttctttaccc 60
 actcctcacg tttggttttt tagggaaaaa caccataact aaacgcgcca caaggcatcc 120
 ctatcgcacc agatccaaat ctagaacgat ggggtgatcaa gaggagacac aggaacagat 180
 gaaagccgac atgtcgactc tgaaagaaca aatggcttcc atgatggaag ccattgttag 240
 gaatgaggca gtcctatggag aaaaacgtgg ccaccgctgc cgctgtcagt tcggctgccg 300

aagcagaccc aactctcttg gcaaccgcgc accatcctcc ctcaaacata gtaggacgag 360
gaagggacac actgaggcac gatggcaacc ctcatctggg atacaaccga gcggcttacc 420
cttat 425

<210> 17798
<211> 365
<212> DNA
<213> Glycine max

<400> 17798

tttcttcaag aatcaagatc aagattcaag attcaagaac caagagaaga cttaatgaag 60
ataagtatga atcttttttt tcaaaaactg agtatcacat ggatttttct caaaacatgt 120
ttaccaaaga gtttttactc tctattaatc gattaccaga ttattctaata cgattaccag 180
tagcaaaatg gatctgaaaa agttttcaaa ctgaatttac aacattccaa ttaatttcaa 240
aaagctgtaa tcgattacaa tgtgttggtg atcgattacc actgcctgtg aactttgaaa 300
ttcaaattca aatgtgaaga gtcacatccc ttctcacaaa agctttgtgt catcaatgac 360
actga 365

<210> 17799
<211> 413
<212> DNA
<213> Glycine max

<400> 17799

taagttcttc atctgatgtc ggagccatct tcatcattgt ttgaaggaat tccgggggaa 60
gctcatgtcc tgatgtaatc agtcaaaacc atattgtaag tctttcatac aagcggaaca 120
agacaactaa acaattttctc ttttaaactt caatatatta tcatttctga taaataaatt 180
tcatcatgat caatcatgta aagttcaaag caatcaatcc actgggttaca gaaataatca 240
tctcaacagc atagccagga catgactacc acaatctatc ttccccgggtt tttaaactg 300
atgatcaata ataatgttaa acagcattca aacctatcaa caacaccaca gcaatctatc 360
ccctcaactg caaagacatg acgataagag tccatattat actgcaagtc tac 413

<210> 17800
<211> 379
<212> DNA

<213> Glycine max

<400> 17800

agctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt gagaagctag 60
agcttagcta cacacacccc tctaataact aagctcacct cttgaaagg cttccttgaa 120
aagattccta aagaagctag agcttagcta cacacacctc tctaatagct aagctcacct 180
ccttgatatg agaagctaga acttagctac acacccccta taatagctaa ctcaccccca 240
tgacaaaata catgaaaata caaaaaaagt ccctactaca aagactactc aaaatgcctc 300
gaaatacaag gctaaaacc tatactacta gaatggccaa aatacaaggc ctaaacgaag 360
gagaaaacct atcctaaaa 379

<210> 17801

<211> 453

<212> DNA

<213> Glycine max

<400> 17801

taggacactt aaatctcagc ttccatatat ctctccaag agaagcgggc atgtaactta 60
tggtgacaac aacaaaggta gaaagaattc ttggagttgg aaaaacaggt acaaattatt 120
caaactccat tgaaaatggt ctacttggtg aaggccttaa gcacaacttg cttagtgtta 180
gtcaattatg tgataaaggc tatctagtat catttgattc tcaaaaatgt ctcatgaac 240
ataaacatga tactaatata aaacatatag ggtatagagt caacaatggt tatatgatag 300
acataagcca aaaattagat aataataaat tttttcttag caaagatgat gatccatggc 360
tatggcataa acgtattgct cacataaaca tgaaacactt aaataaatta atttcaaag 420
atttagttgt tggtttgctt aaattgaaat ttg 453

<210> 17802

<211> 372

<212> DNA

<213> Glycine max

<400> 17802

agcttgtttt gaaagtcaga ctcttgccgt gcactgtgat tatgacgcta gtcttatatg 60
ggagtgcaga gcatacataac ttcttctctt tcttggttctt gagagggttg tctagagacc 120

ttgaagcgaa aaattgttgc taagcatgca cacccttcaa tatatccttg ggcattctca 180
attgtcaccg gaatcttgtc tcatgttcac gagacacgat gaagcttgat atctgctcga 240
gagacctgca ttcttgagc cacccttctc ttgggagtcg tgactatgac acgaacaggg 300
gtcgatccaa gtcttgatgc ctatgcttgg atttaacctc tttgaacact gtgatgactc 360
aagaaaatgt gc 372

<210> 17803
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17803

tgtagtgcga gagaggacta gggacgccac catgattatt tgtgaccagc agtgacgagg 60
accatgactg aggtccaacg atgatgatgc cagtgatggg caacggcttt agattcataa 120
ctgctgngag ttttttatat taagcacaac atgaaatctc gactcgcgag gcttggacta 180
cctcatctcg ataatgacgt cggttcatac actatgtaaa ctggcagact cctctcacac 240
gtcagagtct accctaactc gaactattct agtgcagtat aattttactt atatcacact 300
agttaacgtg cgattttaac tagcatgcac tacagtgcta ctgctcactc tagcacttct 360
cattagcata gattcttgct 380

<210> 17804
<211> 381
<212> DNA
<213> Glycine max

<400> 17804

agcttgaagg caaactggat gcgttggtca acttggtaac ccaactggcc ttgaatcaga 60
aatctgtacc tgtcgcaagg gtttgtggtt tgtgtctctc tgctgaccac catacagacc 120
tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaaacttat gctgcaaata 180
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acaggagagc aattatgacc 240
tttcagcaa cagatacaac cctggatgga ggaatcacc tagccttaga tgggtccagcc 300
ctcagcaaca acaacagcag cctgtctcctt ccttcacaaa tgctgctggc ccaagcagac 360
catacattcc tccaccaatc c 381

<210> 17805
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 17805

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atggccccct gcattcagaa caaaaccct accatggatg cagagacggg aagcaaactc 60
ttgaggatca atcctcatcc tcgtaaatct ggaataggta ggcagtgtct caccctcctc 120
taaaactatt ggggtttcaa agaaggtatt taggctgtca gcatcaatct tgattaagtg 180
tcctgatgca atcctacccc gcaagggcat tggatagaaa actccaagta gattggggcca 240
aagatgcaag agaaggccct aggggttctta tgagccttaa ggtagatttc gggcccatgg 300
gctaagtatg agcccaactta tctttgtaaa tattagatta aggtttcatt atttttgggc 360
cttgatttta gggctccata atgtaagtag ggtaccctag aaatatagga tgtttcagcc 420
ctt 423
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<210> 17806
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 17806

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agcttcaact tacaaagagt agtttaggct tagcgcaaca agcgcgctaa gcccaactgct 60
tgaagtttaa ttccaatgaa gatgttgggc ttagcacagt gatgtgtgct tagctgaact 120
attcagccaa ctagccaggg gtctaagcac ttagcgcgag caagctcagg cttagcatgt 180
gaagatatgg cgcttagcgc aatgggtgcg cttagcggat gggttaactga aaattttttc 240
tgagtctttt ttgtccatct cttcacctag gcttaaaaaac ccccttggt cactactaaa 300
caagctgaaa aattaatcac aatcacaagc aactatccta actacatgca agagatacaa 360
aatgaagaat agaaaaggga 380
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<210> 17807
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 17807

tgcattgcaaa atagacaaaa aagggttgctt tagtttgcaa ttttcatgtt ctttattaat 60
 taattaatta ttatcatcat tttttttttg agtttgcgta tcatatgttt atgccataac 120
 tgtccttgat ttcagcctag tcaactcccc tcaagtcctc atgtaccaga tttcgaagtc 180
 atcaacacct ctttacttta attctcacca agtcagcatt ctctgcatgt atagcaacaa 240
 tatttttaaag aagaggtaag cttactcatt ttttctcatt tcctagttgc aattttttgc 300
 tcaagaataa gccattaata atttcttgct tgaactatta ttgaatctct taagtgatta 360
 cttaagtaat aaaattatct aagtaatcta tgaagtattg atcaatatct attactttaa 420
 ggactaaatt gaa 433

<210> 17808
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 17808
 agcttgtatc aaattcaaac gacaataacg ttttactcgg atgtttgatt gcgtctcgta 60
 atatatcgag acgctcgaaa ttgaaaacgg atgctcgtag caaatgcaaa ccgcaataac 120
 ttttaactcg gatgtatgat tgagtaccat aatagatcga gacgctcgaa attgaaaaaa 180
 gaagttctga gcaaattcaa acgactataa ctttttactc ggatgtctga ttgagtcccg 240
 taatatattg aggagcacga aattgagaac agaagctctg accataatca aaccaaataa 300
 actttatatt cggattttgcg attgagtcct gtaatatatg aagacgctcc aaattgaaaa 360
 cagaagctct gaacaaattc 380

<210> 17809
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17809

cttgagccaa ttcaaacgac aataactgtn tactcgaatg tctgattgag tcccataata 60
 tatcgagacg gtcgaaattg aatgttgaat ctctgagcaa attcaaacga caatagcttt 120
 ttactcggac gtctgattga gtcccgtaac atatatgagac gtcgaaatt gaatgttgaa 180

cctccgagac aattcaaacg acaataactt tttagcgga tgtctgattg attcccgtaa 240
 tatatcgaga ccctcgaaat tgaatgttga agccctgagc caattcaaac gacaataaat 300
 ttttactcgg atgtctgatt gagtccccgt aatatagcga gacgctcaaa atggaatggt 360
 gaacctttga gccaatcaa acgacaataa ccgttttact cggatgtctg atggagtccc 420
 gtactatatac 430

<210> 17810
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 17810

ctttttatag aatatatact agaagaacag tgacgattga acagtctata catgtttcct 60
 ttgatgagtc taatgccatt cttccaacga aggatctttt atatgatatac ttccattcct 120
 taaaacatac acatattcat ggaaataact ctacgaaat atatgactga agccatgaac 180
 attctcaaga taatggggct ataggaaata atgaactttc aagagaatgg aaagcctcta 240
 gagatcatcc tctcgacaac attattggtg atatatcata aggggtctca actgcacatt 300
 ctcttaaaga tttatgcact aatctggcta ttgtctctat gactgagcct aaaaatatga 360
 aag 363

<210> 17811
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17811

ntgcttggag cttcaatgga gaatgaagaa gataatggca acgtgagggg gagagagggc 60
 tgtctgaaat tttgtggggc tgagtgaaga gagagagagt tgctttttgg ttttaaatga 120
 aagggttttc tcttttttct attattttat tcaagctatg ccacatgtct tcatttgagt 180
 ggagcaagaa gggccactt tcccttttta attgtgactc atactcaacc acaaaaagtg 240
 agaaaaacct gaccttgaa acgctaaaat cctgccttgg tttgcgtgcc gtttctctgg 300
 ttccagttcc tcacgtttct ctgcgtccgt cggggccagt tttcgaaagc aagcaatata 360
 tatatcaaaa tgctcagaat aaaaccccgga gcgtggttca gaggttggtt ttogtaaatt 420

ctaagtc

427

<210> 17812
<211> 374
<212> DNA
<213> Glycine max

<400> 17812

agcttgaagc tcaagaaaaa gtttgaagaa gttttttggc ttttacatgt ccaactcctt 60
tgagtgcacat ttgtattggg tattaacttg attattgcat cttagtacat ccgatattta 120
ttttgcattg tgcacatca tagtgtgagt gaagaaaatt ttctaagtta gaaaaatttc 180
ttcagaggca aaaactctat tttaatcgat tacaacaagt tgtctgaagc ttaaagagtt 240
aagtctcgta ttggtttaac caattatggg agtattttta ttggttacat ttttgtttga 300
gacaatgact gatttttcag gagtctctac tttaatcgat tacctgggtg attaatcgat 360
tacttctctc tcat 374

<210> 17813
<211> 429
<212> DNA
<213> Glycine max

<400> 17813

tgtaggatta tggggtaccc atcacatgtg gtactatgtg gcggtcgggc gatggtgcac 60
aacaagtttt ccacatccac aatgcacgca taaaccaccc atcccctggt gccacactcc 120
aactgagctc acgtactccc acgtagccca tatcctcggt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc acaacatcca agaaaaaaca cattcaaaca gcacaagcta 240
tcacagccaa gcaaaacaga gtaaaggcag aaaactctgc tcaacacatc aacaaaaatc 300
acagcttttc tactttaag accacagtaa caattccttc gatccaattc gtaaccggtt 360
ggatcgactc caaaatttta ctggaagtct atagtgcata agcctacatt gtaaccggtg 420
ggatctact 429

<210> 17814
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 17814

atcttttaaag cacttctcag tactaaaaat cctaactata catacaaag ggtgatcaag 60
 ccacaaacat gcaaaaatga gcatagatag aagcaatgaa cacataaaaa taacattaaa 120
 tagatagtaa gataatttta tatcaaaggt tcagcagaac tccccaatca agagggttag 180
 ccttccatta caagtaatga gctttcaata caaaggccag attttgaggg aagaaaatgg 240
 ctaaggaggg ttgaggatgt ctcttcaac ctctagaacc ctaatctcac tcttcccacc 300
 tagactctct tgggtggcttc gtgtttgtcg ctctagcttc tcccttggct ctgttnttcg 360
 actcctctct tagtttcca 379

<210> 17815
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17815

ggacctatga aactcagctt ncatactggc gctcanaagg atttgacctg tgaggatatt 60
 caggatatttc aactaaattt tgaatgttgt tataatatgt tgcactaaaa atcttaattt 120
 gtaattgact aactacaaaa tgtatttatt atatcataga ctaaatttga tattcctgaa 180
 tcatctaatt tgagtacaaa gaaaaagaaa cttcagatcg tacgagagaa gtggatgcaa 240
 tctaaatcag atttgacctc caaatatgcc ctggcacacg acaaggaggg caaggatgac 300
 aaagtatgca agaagtatga cataagcaaa gagaagtgga cccagttttg tcagagacgt 360
 agagaccctt catgggagga taattgatta tcattgtgtt ttaaacttca tatgtacgta 420
 ttattgtcga ctgtattaac ttac 444

<210> 17816
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 17816

agctttattc tcagatccct ctgtttggac tagacttagc ttgaatagct tatgaaagtt 60
 tagactaatt tagcctaagc tttgtcctca gatccctctt gttggactag acttagacca 120

aacaacatta ttgtaacagc atacttaaaa ccaaaactta atccgcagat ccctcttgta 180
agactaagtt tcaattatgc ttcattcaag ttctaaggaa accatacatt ttccaatggt 240
aaaatcacct aagtatgcac acaaattggct gatcagacaa aagcatacaa aatttaagca 300
cggaaagaag cattgaacac aagataccca atcaattaga tatgataata attaaatctg 360
ttgttcagta gaaa 374

<210> 17817
<211> 427
<212> DNA
<213> Glycine max

<400> 17817

taacaaattg tttctatagt ttgagcttga cctttttatt tataaaagct ttttaaaaaa 60
cttgagttaa acctttatag taaataagcc gaaccgagcc gagccttaca taggccgagc 120
caaaggccct tgacaagctg ctcggtcat ttccaccct attagtgact atataggttc 180
acctgtgtat ctttatctat tttattcgaa catgtatggt tgggttatgt atttatttta 240
ctcgccgact cagagtatta acgcgttgaa cagttactac attttattat gcacatttta 300
aagatcaagt gatgttttat gaaattggat aggaaagttt ttaatctccc aaaaatttcc 360
gctatttttt ataatcttcc aagttaacct tatggaacac tgatgactat ctttttctta 420
agtaaatt 427

<210> 17818
<211> 379
<212> DNA
<213> Glycine max

<400> 17818

agctttatcc ttgacatta gcttattgtg ctttctgaaa cacacaacaa cctttattgt 60
gaaattgtaa aactctcata cccttgattt tgtaaaacac gccaaagtcct tctatagttg 120
cattattggt tgagaaatct aagaaacaca ttattttttg catatttttt tattgggtcaa 180
aatttattaa aaataatgaa attgattaaa tgtgatagtt ataattcaga atataagata 240
gtgatctaatt tattgttgggt cattatttaa tctcattttt agttgagata aattagacaa 300
acacttttag aatagataac catgtgaatt taataatcca aggctgacta aaacggcctt 360

ccagtctcac gcagttgat

379

<210> 17819
<211> 430
<212> DNA
<213> Glycine max

<400> 17819

tgtccttggt ttaaacaatga ttatacatg atttatgact tgtaggattc aatttgggca 60
aaattggatg agggcaagtg tggtttcgaa aatctgcact ttatgcagaa ttttgctgtc 120
aaatatgtgc agcagaattt tgtatatgtg cagaaaaatg cttgtgtatg gctgggtggg 180
gaaagggtag tacatatggg gttctggata tttgctagca gatcccaacg gtcaaaatgt 240
agacttatgt aatagagact tccagtaaaa ttttcgagtc gatccaacgg ttaacgaatt 300
ggaacgaaga gaatgttatt ggggtatttg agtgtgaaaa gctgtgatat tgatttgtgt 360
tttgggcaaa gttttctgcc tctgctctgt tttcttggct gtgttagtgc atgatgcttg 420
gatgttgaat 430

<210> 17820
<211> 370
<212> DNA
<213> Glycine max

<400> 17820

agcttcagct gacattggga agcaaaaacc catacctctc atcatagtct ttcttgtgta 60
tgccgattga acttgcaggc ctgttgtgat gtggccttga catgtcacat tgacatatca 120
aacttttcct aataagtaaa ttcaaaaatt tggagccggt gttattgcta aatgttagat 180
gcattaattt tttaaatgat gaaaatacca ccaaaaaaat tatttgaata agtctttcaa 240
cactgtgtca tgactacaac attttaaaaa aacagacccc gagtgtattt gttcatcact 300
ctcaccgaaa ttaataaaca ttcatgcttc tagtgtcttt taactgggtca gataacgtcg 360
gcgacccatg 370

<210> 17821
<211> 425
<212> DNA
<213> Glycine max

<400> 17821

agttacctct aaacagggtc ttctagtcac gtggataact gacaatatca actttttggt 60
ctctgttagg catttcaatg ttgaaatata tcttgaagcc tttcttcttg ccttcatcac 120
agatgggtaa ccttgagtag gttctgttac gaaccatctt catgtcaata gctctactga 180
tatgaagaat tgggtgataa gatgtagctt cattaaaaaa tgtacatctg ttcagaattc 240
tagctatcat atccaactca atctgtgagg gatttagatc aacaggatta ttgcatagaa 300
atcttgtaat aggcgtacgg atgttaacat ttttagacca ctaaacctaa gaagatgagt 360
tctcttgaga tggatccatt ttgtttcttg aggatgtaac aatggagatc ttctcaaag 420
gatca 425

<210> 17822

<211> 376

<212> DNA

<213> Glycine max

<400> 17822

agcttatggg gagggtaggc cacaatctca accatgattg atgggtggaag gtacccttga 60
aacaacacaa tgtcccaaaa accctcctgg tcaacaaggt caccactttt ggactggaga 120
aggtcctttg gcaaatcatg aataaaaaaa tcataaacia cattgccttc aagtcataaa 180
tctaaccaaa agtttaciaa ctatccattt cccactaacc ttgttcttga tcaatgctgg 240
attgaggatg tccaagcga attagaccaa atcattttga gtgatgtaat ttctcttcta 300
ttcattaata aaatatccag cgtattgatc ctaaaaaaaaa aaaaaacact ctgttgatag 360
cacaactac cattac 376

<210> 17823

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17823

ntactgaaaa tggatcgtgt gtctttcttt ttttaattgga ttgatgtgtt gagtggggc 60
ttgaatgaat caaatattaa attggcactt tttgctgatg gctcactgat agtgccgtgt 120

tgcaggaagt cagccgtttg cttactgggc ttaattgtgg aaaagcactt gaagcagttt 180
ctctcccaga atctgcaact tccctctctg cggaacatgg ttttgacatc caggatatgat 240
tcaatccact ttttactata tgggtttttc ttgtgttggt ttgaactttt tttttaatgt 300
acttggttta tgtagtactt gtgtgtgtgt taactctttt ttaatgtact tgggttaaatt 360
gtatttgagc tgtgttgaac ttttttttga agaaataatt gattnttact attgagaaat 420
tcttg 425

<210> 17824
<211> 377
<212> DNA
<213> Glycine max

<400> 17824

agcttccgtt cctgagagaa attctcattt gagcgtttca gcctttgctt tcgtgtagct 60
taggaaaaac gccatttctt ctctctctt ccttccaaaa ccatttctaa cgtcccaagc 120
actttctcca tcaccacaaa ccaccattag ccaccacaaa ccgccgttgt tctccgttgc 180
aaccacacac tgagagaaac ccttcgaccg aagcggaatc ttccaacttg gctcgcggtt 240
tcggtagaga atgaaatcct agtctgacct ttcgttttcc ttcgaggtaa ccatggttct 300
acgcttgttt cttgttagtt tcaacttgtc tttgtatctt ttctgacttt ggaaccgtca 360
ttgcatgttt tacgttt 377

<210> 17825
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17825

ntaaccgaaa cactaagaaa gttgccaaact aaattgcatg ttagtcaacc tttaccttca 60
tctattttgc aggttacagg ttgcacactt tatggtggag ctcatgggtc aggcttgtgt 120
attcccacta aagaaacgtc tcatgaagtt aattacatgg gaaaccagcc tggacaaaat 180
tttaatgcag gtggattttc tggatttcaa catggccaac cttaccagca acataatcaa 240
tggagaactt accctggtta ttagttcaat aaagtcagg gtgggccacc taacaggcca 300
caacaacaag ggcctagctt atctgagaga acaacaaagc tggaagaaac tcttgctcag 360

tttatgcagg tgtcattgac taatcataag agcacagagt cagccataaa aaatctagag 420
gtct 424

<210> 17826
<211> 375
<212> DNA
<213> Glycine max

<400> 17826

agcttgttta ggatgcttta atggaggaaa agaaagagag aagggggtag catgaaattg 60
aaggaataaa agaggagag aagtggaact ctgaagtgtg tctcataata ctttcattca 120
tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggtagc ttccttgaga 180
agctttcttg agaaaacttc attgagaagc ttctttgaca aaacttcctt gagaagctag 240
agcttagcta cacacacccc tctaataact aagctcacct ccttgagaag cttccttgag 300
aagatttcta aagaagcttg agcttagcta cacacacctt tctaataagct aagttcacct 360
ccctgagatg tgaag 375

<210> 17827
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17827

ntgacttgag tcatcaagag attataaata tgtgaccttg acatgagttt caataatcat 60
caatcatctt tgaatcatct atctttcaat cttttttcaa catcatctct caaacatctt 120
tcaatcaatc tttcaatatc tttctaaaga atttttctgat tcatttctct tcttctttct 180
aagagttttt gttcaataca ttctctttca agaaaagtgc attgttcaaa aacttggtgct 240
attctttttc ttcattctct tctccctttg ccaaaagaat agaaggacta accgccagaa 300
ttgttttggt tatcccttct ctctttacaa aatattcaaa ggactaaccg cctgagatat 360
cttttgtttc ccctttcaaa gattcaaagg actaaccgcc taagaattct ttgtgccaac 420
acattgga 428

<210> 17828

<211> 542
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17828

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agtgggtgtag tncctgatgt catcgcacac tccacggcga tatatgaact cgtgcccccg 60
ggggatcctc tatgagtcga ctctgcatag cactgcatag ctttggttga tgtattgtca 120
ccacagacat actaacgagt tctgtcacct gtatcttgca aagatttcac tactcaacat 180
atgataactt tgatcgctag taatcgggta ctcacctgtg ttaataatag aggaatgttt 240
ctccgcatat actatccgag gaccatacta cactgtaccc ctgacgcata ttatcatacc 300
ttcatcataa ctctaactga actcttgaaa caaataaata agatattata atgtaccttt 360
cttaataata atgcatacta acttgataaa acatatcttt cctatatattt aaatgacatc 420
atTTTTTaaa taccttctat ctttcaaagt gtctaattgg aactgaatat cttaattaca 480
tcattttagt gacatatattt actttccaaa aatattaaat attaatatct cattatctaa 540
tc 542

```

<210> 17829
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 17829

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ttgtctttta agataccttg attcgtcagc catttcttat ttcttaattt tgcactacta 60
ccattaccaa ttcgccacct aacaccctcc ttgacatcct tccagctaga tcatatgcc 120
ttccagaaat ttgagctatt catctttttt ttccaccact ggaaggaatg ccattatttc 180
cacacttata cttggctctc actacatcgg cccatagaga attcccgttt agtgcaaatt 240
ctccaaccag atatcataca ggacttatcc atagcgagag aagatcttaa gccacacca 300
ccaatctatg ttggcttaca tacatccttc caagctattg catgaactgt cattgcgttc 360
tcctcctcac acacgaacgc tctacatttg tcatcaatct ccttacaaat gtaagctggg 420
atttcgacga tt 432

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<210> 17830
 <211> 352

<212> DNA
<213> Glycine max

<400> 17830

agcttattct gcaaacatta ctaatacacc tcctctacag caaaaccaat aattgcataa 60
taattatgac ctttcaagca atagatacaa tccaggttgg aggaatcatc caaatctgag 120
atggacaagt cctccacaac aacaacagat tgtgcctctt ttttagaatg ctgtctagac 180
aagcatgcca tatgttgctc ctccactaca gcagcagtca catcaaagac aacaagcaac 240
tgaggctcct cctcaacctt tcttagaaga gttagtggag caaatgacca tacagaatat 300
gcagtttcag caagagacaa gagtcttcat tcagagtctg acgaatcaca tg 352

<210> 17831
<211> 424
<212> DNA
<213> Glycine max

<400> 17831

tgaccctggt gtaagagggt aaaaagtgaa agttaatctg ttgcaccaac aaagttcttc 60
aaggaccaga aaaaaggtag catatgattg aaatcttgct gtagcattga tcaactcatc 120
tagaacgttt agaccgtatt tccaaaacca ttatattaaa gtgataattg atcatcccat 180
tcaacgagta aagagaaaat ctaagcttac aagtacaatg gtagcgtgga tagtcgaact 240
ttttgagttc ggtttgaaat ttgagccaag aggtgccatc aaagggtagt acttggtcga 300
cttcatggac gagctacttc ccaatgaagg ctacaacgaa cgttagtgga cattatacat 360
tgatggaact tctaacaaca atagtactgg tgttgggggt actctgatag gaccagatgc 420
catc 424

<210> 17832
<211> 375
<212> DNA
<213> Glycine max

<400> 17832

agctttttct gaattggaga gtgatttgat ctgcagcata tgagattctt gagacaacag 60
ttagggaagt tgtccatcca agttgatgtt gtcattgcac gatcaagctt ctcaagaatt 120
ttgttggggg aacctttgct ttttgtcgtg cattgctttt ttaaattccag ttataagata 180

atttgggtga gggttgagac cttacttttc atcacgagag agtatgtcgt tgaagtcac 240
catgatacac cacgggagag tgttgtcaca cgaaatgggtt cttataaaat tccaagagtt 300
cctccgacga gttctgtaaa gatagccgga ataactagta tagcgccagc tagggcttcc 360
aatcacagag atccc 375

<210> 17833
<211> 433
<212> DNA
<213> Glycine max

<400> 17833

tgctgtgtaa cttgagttaa ttattagaac tacaatttat ccatataagc agcacaaagc 60
gaccgagagt gctcactgtg ttttccccta catagtacag aaaagagcaa gttgataaac 120
tcaaagtagc caccacttat acatggacca tacatgtcac agaagacaaa gaactgggtac 180
ttactgtgag caaagaacat gggtgaaaaa ctaaacctgt caaataaata acaaatagaa 240
gttacaacca tatccagagc taaacgaatc aaaaatgaaa accctaccgt tggttgatat 300
gattactgta tgtatcatca acatgggtag gctcaatata gagagcctga gaaaggagg 360
agggagaaaa agaccagatt tccttaccac aaaattgtga ccatttggtg tttgggaggg 420
cccctaatat cat 433

<210> 17834
<211> 370
<212> DNA
<213> Glycine max

<400> 17834

tttcttcaag ccagggtcag attctcgtgc atgcataggc ttcttcaaga aaaactccaa 60
actccctttg caaatctgat tttaggctta aatagggtggc cttgttcgtg ctcatgcgct 120
tagcacacgt atggaccgct taacgcacgt tagggatttt tggtcagcg cgcttctctc 180
gcttatcaga tgagctgaag cgggtgcgctc gatgacttgg agcagtgcgc tcagcgaacc 240
tgacagctca tcttcttctg gattcttccc aatttgcta attaacctaa aattgagaga 300
aattgtttat taaacacaca aaacatacgt attaatgac tattacctat atttaacaaa 360
aggacttatt 370

<210> 17835
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17835

ntntggagta gagacatggg accaactcat tttatttttaa aaaggaagtc gtatctagtc 60
 aaggtcttag agaccataca agtttcctaa cgattttctaa ttatgtgggc cattaagtct 120
 atcatatgct gacaatagcc gagaagccca tgaatctctt cgggggcgga gtaggtgtct 180
 gccatcgcct tggccttggc taacaatcgg ggaagttctt gactcccggt caaggtgaaga 240
 gcaaaccgat ccatccacat ggttgccctt tgggtgtaaag aggcgatcac ccttcctcta 300
 gcctctgtgt ccgcgtatac ttgggcatac tcatccgcga ttctatgctc gtgggccgtg 360
 gctagaccta actcttcttg gtacttggcg atgatatgta acattgtggt ctccgtctcg 420
 cat 423

<210> 17836
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17836

tatctnttgt acagaggggg ccgaagccag tttgtgatat atcttaattc atgttccaca 60
 atcttaaaaa tccataattc tccagaccat gaccatgata atatacaaga tacatattaa 120
 cctccaagca caatttattt catactctaa gtttaaccag gattcatatc ctaaattcatt 180
 tgattatgag acacaagact ctattaccta tgtcaaccgt tattgatttt gaaaagctca 240
 ttagattact ataatgctat aggataagat ttgatgataa tataatattc ttatttatta 300
 taatatgtta tctgatgtat atgcaaacat aactattggt tcgtatctta ttcctatcta 360
 atccttata 369

<210> 17837
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 17837

tgcgagccta aacttgtagc ttcaatacac ggaattatgt ttatggctag gaatccaaaa 60
ttaggtttta ggattagaaa agtatgaaaa tatggacttg tttgtaaaaa tttgggctgc 120
cccatgattg gcactttgca cctaagtaac atgggagatg tttttcaagg gtgtgcggat 180
atatgtgtta aaatatatgg cgtaaaaaat atgttgcaaa gtgtgtgaat atatggtaca 240
aaaatacctt gcaaagtga tgaatagaaa ataatgcatt acacaatatg tatgtttgtg 300
gatcagtagc ataaagagtc tttcaaaaaa tgtgtaccgc tgccaaatat gggacgagaa 360
tgctctccga atgcatatat 380

<210> 17838

<211> 330

<212> DNA

<213> Glycine max

<400> 17838

ggcaatcagc tcgcccggga tcttagagcg acctgaggca tgctttcttt catataaagc 60
gaagcaattc atggagcttg tatactcaca actataattt cttaaattcgg aatttgcttg 120
tgaaacctat gttgttgtcc ttatagtgcg atttgcagaa gatccctgtc tcattcaagc 180
cttataagct atacatgaag acgtatgaat ctataactca gcttaatcac cgatctttct 240
atgatttgac tctttacaaa gaaataacac tcttttaatt taatacgttc tatggtcctg 300
ctagtaaaaa tcatcaactg ttaacgatcc 330

<210> 17839

<211> 225

<212> DNA

<213> Glycine max

<400> 17839

cgacgagcat tgaaaaagcg aacaccccag aggtgaccac caaaaacagc ggaaaagcca 60
atatcgcggg caacggagaa cacaaaaaaa aaaggggaaa gccagaagaa aagagaaaga 120
aagacaaaca aaacaaacaa aagaagaaaa ggggagagag gagcaggaag agaaaggaaa 180
aagaggaacg gaagagaaga cgaaacgaga ggaaaagggg aaagg 225

<210> 17840
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 17840

tagttttcat caagtggtaa tcagaacaca agagcgtcta ttatgtgctc cttaaaccctc 60
 cattaattat ttactatacc ttctcttcca ttgtcgtttc ttcatttttc tccatgtatc 120
 tcctcacacg tcttgagcta aatggttgta acatgattct ttatagttaa caccgattaa 180
 actcgtcata taagctatat tcgatattct atggttcaaa tttcttggtc ttgctcttga 240
 cccatgaatt gtgtcgagtt taggatcctt tgagattgtc ttgctattct ttgtggctga 300
 aacctaaacc atataattcc tataaaaata ttttaagtata ataaatcctc aaaaatc 357

<210> 17841
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17841

gtagttctta aatttcttgc ngaatattga ttagaatata taacacaaaa atctaagtgt 60
 aaatcacttt attcatgtag tottagagtc atgtatagtc ataataattg tcacattatg 120
 ttctaagttt atgttcaatt ttgattttgt tgattgaatt ctagatacat ttgttcatgt 180
 attcttgcaa ttcttagcct attatttgaa ttttgagtct aattcatgca tgttgtttag 240
 ttcataacat gttctaaatc aattcctaga agtagtcttg ttgaacttta ttttttttgt 300
 tttctaagtt tcctatatga tgcccatgaa gaaattgagt tgtggtgctg acgtgtggct 360
 ggatttgtga ataaaaataa tttcttaagc tctcttgagg tatattattc gagacaattg 420
 agcata 426

<210> 17842
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 17842

agcttgcttt aagttgatat caatctgaaa atgtcaggaa caggacacga taccctaacc 60

ataatatata tgattaccca ttctatcttg ctaacttact agtggtaaac cttggtcacc 120
 ataaaaacta aaaatgctta accttaagac atgtgtctta tatagaaggc tactataaga 180
 gtaaaaatac aagtaaacca gtattttttt ttttgaaaca tacaagcatt gttgctctgc 240
 tcctcaaaag atgctagaca tcactttatt ctgtcaaaaa tgcagtgtca taaaattggt 300
 actctgtcca acccagagaa atgaatatat tgaagccctt atttagagac taagtttatg 360
 ttgcttgata gatgcta 377

<210> 17843
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 17843

ctaagcttct caggagggtga gcttagtttt gagaggggtg tgtgtttcta agctctagct 60
 tctcaaggaa gttttctcaa agaagcttct caagaaagct tctcaagtaa gctacctagt 120
 ctataaatag aagcatgtgt aacacttatt gtaactttga tgaatgagag tcttggtgaga 180
 cacaactcaa agatcaactt ctctcccttt ttattccttc aatttagtgc tccccctct 240
 ctttctctcc ctctttcttt tcctccattg aagcctcttc tgcaagcttc ttatccaaag 300
 ctcatettga tgggtgaagct ccttcttcca tggttatttc cttaatggat ggcgcctcct 360
 ctacactctt ttctttgtc ttccgctgca tctccatggg ggaaaatcac cattaaagga 420
 cctcattgaa gc 432

<210> 17844
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 17844

tgcttggtgc tacaccgctt tgcactggat aactttttct ttaattattt tttttatata 60
 gaagtgttta actggaatta gaatatttga tgtataatgt ttggattttc tttgtataag 120
 tattgagaac tctgtttggt tatgattatc aggcaagcaa aggatgttgt taaaggata 180
 aagaagcgga ttggaagtaa aaattcaaaa gttcaacttc ttgcactaac tgtaagcaag 240
 agtgttgtaa tacaaccttt tttctcttaa actctgttga tggcattgat ctaaattctt 300

tttgtatcta agcatgtttg cttcaattgc accattttga ccttctaaac tttacattct 360
tgactgatt 369

<210> 17845
<211> 424
<212> DNA
<213> Glycine max

<400> 17845

ttaagctagc ttcaaatga cactaataat atatttataa aagataataa aaaaattgaa 60
taaataatatt aaggatataa aaaataaaat ataaaaagct ataaaaatta gaagttgacg 120
ttttaaaga cttacttta tgtagatttt aaaaaacatt agaaactact aaaaaacggt 180
aaaaactact taaaaatatt tgtttatgaa caatcaaata aatttttggg ttagtaaaga 240
aaagtagaaa ctagttatac acataaaca attaaagaat tcaatttgaa ttgtaagcat 300
agaaatttac ataagtgaag gctcacctcc aaaagcagtg ctatagcatg caacggcaca 360
agtctgaatt atgggtattct cctgtctagt gaaagggttct gacacaacat tagctttctc 420
aaga 424

<210> 17846
<211> 374
<212> DNA
<213> Glycine max

<400> 17846

agcttgagtc cttaaagctt agaaactata tgagacattt ccatgatgta ctctctaatt 60
tttttcccgt tatactttat ggaaatcaag tgggtgtagca atgtacttgt ttttgcctta 120
tcgctttttt caaagcattt ctctagttta tcaaggaaat ccttagcatt ggtgatccct 180
tcggtcattg cacccttaa ggattttgga atgccacact acaatcttgg tttttatatt 240
ttgttgaaca aatgggtctca gttatcttaa gaaggggggg ttgaattaag ataacaagaa 300
ttattcccca attaaaattt cactctctct ttttggatta acaatgcacc ttcaacatga 360
attactcata agac 374

<210> 17847
<211> 413
<212> DNA

<213> Glycine max

<400> 17847

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gttgttttatg cttcaaagca tgtttgattt ttgtgggttg gtggaatttg gtgttgggtt 120
tccttttagag tccttgcccc ttgtatgctt ttgatttggg aattcttgat gaaatcttgt 180
atatgtttaa ttgatggttg atttatgttt ttttggactt gtgttgagta ttgggatggt 240
tttgaatcat ttgtgagtgt ttggagaggt agagagtaat gaagatacgt ttgggtttgc 300
gagaaccttg aaattgcgag ttatacagtt tgtagactca ttgggtgaga caagcttgtc 360
gtgtattagt gaatttttta gagcattact cactaggtga gcctaacctt gtt 413

<210> 17848

<211> 310

<212> DNA

<213> Glycine max

<400> 17848

agcttatctg ttttcccata tcctattgta ggattctggt caatcttacc cccagcttgt 60
tgtttttttg tcttttgaac atttgcttgg acttgcccta tcttagaagg tgtgctgtct 120
atacaagttt ggtcattctt ttgatatctg cccaccccat cattatcttg ggaatagcga 180
tcttatttgt ctttcttaga accctagtgt tctttataac tctggccagg ggctatatta 240
tttcttatct tattatgctt gtgggtatca ctaccttggg tctccttagg acccatgatg 300
cgattagaac 310

<210> 17849

<211> 434

<212> DNA

<213> Glycine max

<400> 17849

tgattgctta taattctcct gaaattaaat taaaatttca tatttagtcc agtaggceca 60
aatgataaaa ctgcataatt aatttgacaa ttaaggctaa tcagtaatta aaatgctgac 120
aaaaagggtt aagatatagg ataaaatgat gacacatcaa atcccctcac acttagcctt 180
ttgcactcct gtgcaaaatt aaataataaa aaaacaaagc aaggaacaat tccagagaca 240

ttaaagagaa acaaacagac gctaaaacaa ttacatatTT ctcaatgaat ctcaaggaat 300
 gaaaagaatg ggtaacatcc aacacataaa gagttaaaga atcaaggccg tcatgaaaat 360
 cattcaagca tttcaaacat ggcaagatag tcaatcaact catcattgaa aagtgataat 420
 agcctcacia gata 434

<210> 17850
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 17850
 agcttgctct aaatttacat tgatgtttgt atttatggga ggaggttata tgccattttt 60
 gctttaagag taacgtccca ctggtaaaac taactttcca aatgtttgcc ttgcgaggaa 120
 tggccccgag gaagcttgcc tcaaagaggt ccaggaagga caaggcggcc gaaggaacta 180
 gtccgcccc ggagtaagac agtcaccgct ttaggagcgt tgtacaccag cagcgcttcg 240
 aagccatcaa gggatggctg tttctccggg agcgacgcgt ccagcttatg gacgacgagt 300
 atactgattt ccaggaggaa atatggcgcc ggcggtgggc accactgggt actcccatgg 360
 ccaagttgat 370

<210> 17851
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 17851
 cactgacgaa gggcgacaaa gacgacgttt gtcactgcat gctatcatgc ttatcgctct 60
 acagacagct aaaaacaatg tttatacgga taaccactca gggtatttcg cccgtcagca 120
 gtgactaaca tgtcaatatg aaaaaacttg tgagcgcgga agatgacgca aatctccgcg 180
 tgtcacacgg cttgtcggcc gcgattgacg aaggacgtac aagacgtcgt tagtctctgc 240
 gtgctatcag gctttacgtc ttactgacac caaaaaagaa tgtttatacg gataaccact 300
 cgggtatttc cgcccgtaa cgtgactcat atgtcactat gacagatctt gtgagcgcg 360
 aaaatgacgt acatctatgc gtgtcaacgg gcttgtcggc cgcagattga cgaat 415

<210> 17852

<211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17852

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agcttgcttg tggggcttct atggaagttg gatcttttga gcttcaatga ggtcctttaa 60
tggtgatttt ccaccatgga gatgcagcgg aagacaaagg agaagaggta agaggcgggtg 120
ccatccacta ggaataagc catggaagaa ggagcttcac caccaagatg agccttggtat 180
aagaagcttg gagaggatgc ttcaatggag gaaaagaaag agggagagaa agaaagaggg 240
gggcgcacga aattgaagga ataaaagagg gagagaagtg gaactttgaa gtatgtctca 300
caagactctc attcatcaaa gttacaacta gtgttacaca tgcttctatt tatagactan 360
gtagcttcct tgagaagctt t 381
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<210> 17853
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 17853

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ccaaaataca tgaaaataca atgggaaact tccttgagaa gcaaggaagg tagcttcctt 120
gggaaaaaaa ggaagaaagc ttctttgaga agctagaggg gggcgactga ttgaggccgt 180
acccgaatca aataaacatt aaaaatgcag tatctaagaa gtgacccatg gtcgtctccc 240
aatgagcaat ggtcaagcaa cgttttataat agatagtgat aaaacagtaa cgaatggggg 300
ggggtgtttg ttcttgtaat tcacacatca tgcatttct agtagaacat ttctgaatcc 360
taacatgttg ttgcccttg att 383
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<210> 17854
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17854

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agcttgata ctgaaggaat atacaataaa gaaggcatat agagatcttc atgcacttgc 60
ctttgttctg attccaagct ggtatgcaa tgctgaggac ataaagcgac tctgcaatat 120
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ttgaagccca tcttcacccc atctttacaa caattttagt gctccaattc tattcttatg 180
tatgttataa attagacaat gattccacca acaactagt ttcggtatat ataaaagctt 240
aacttctatt acaagaatct atttagaata caatattcca tcttttctct catttgata 300
taaatttaac tataagaaat atgttcccggt tatttagtggg ttgcttagct tcactttgca 360
accttcatct agttagtaat g 381

<210> 17855
<211> 435
<212> DNA
<213> Glycine max

<400> 17855

tgcttaattc ttttcaaaaa ggagttcaag ctttatattc actttcacaa acaagtttga 60
aaacaagtaa cttgaaaaac aagacaactt gtatgtttgc aaaccaaatt ttctctttcc 120
aaatatgata ccaacttctc ttattagaat gagaatgggc agaaccaagg gttgtgttta 180
tgcagcaaatt agaaacacccc ttgaataagt ttttggcaaa caagtcttga aaaccaatta 240
agttttagtt tctcaaggag aatgatctca ccaaaaagtt ttcaaaacct tttctttttg 300
gacaaaaaac aagctatatg aatatgcact ttcaaacata agttaaaaaat accatattca 360
aatacaagct aataaaaaaa atataacaat gagagaagca tcacatttat caaaaaatga 420
actatattct gagca 435

<210> 17856
<211> 382
<212> DNA
<213> Glycine max

<400> 17856

agcttctata tagtgagatg ttgtggaagg gaggtgcttg atactattat acatgagata 60
ttagatgtca atatatatat aaaaaatcaa tctccttaat ttataatgtt ttttgtaaaa 120
tctcaattta aataaacaat aacgggttga ttaaaattaa tagttaggat aaattttaac 180
aaaagtcact gtattaattg tacagtttta ctttccatat tttttagggtt acattaaagc 240
atccgggagt tacaagctct actcatatat aaaattgaat tgatcttgca aaggagaaat 300
agtgggtatcc gtaactgtga taataattac aatttaaatt ttaattcaat taagcacaaa 360

aatagttaca ggatggtcgt ag 382

<210> 17857
<211> 411
<212> DNA
<213> Glycine max

<400> 17857

cttgatgtgc agaagaaatt ccgagacgga ttggttatta tagttgtaga tcgcaacttt 60
gtgcaaagtt gatgagcttt tgctctaatt aacttctgaa aatgatcgtg aattttctcc 120
cacacttgaa acacatgaat ggaccctagt acacacgata aaattgagct acaaagagat 180
gattgaagcc acgtgaggag catttaatct tgtatctccc atgcaatgta cgcaggattc 240
atggtgcttg aatcctgac agcttcattt gcatactga gaggaatgtt tggatacact 300
agatatctgt gtaattgatg cgctttgatc actggtacgt gttgcctcca cagcaagaag 360
tttgaatcag agagcttctt agtgattgag tgcacgaaag caaaagatga a 411

<210> 17858
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17858

ttgcttatta aatataaaaa attaatTTaa tggttataaa aaatacttct agataaatct 60
ttattccaac ctaacaaaat aacttacaaa aaatgtgtga tactacataa atttcgaaaa 120
tcacctaaca aaataactta cataaaatat gtgatcttcc aaaaccatct aacaaaataa 180
cttacaaaaa aaattgatat ccagaaaatt atcaaaccga cgaaagcaaa aacgaaagct 240
actgcaacag ccaaaacaac tgataaaaaa tggatgaatga gggctgtatt taaagaccct 300
aaaacgcaa caccatttgc gcttctctcc tgctcctggg ctgccaaagc tgttgtgctn 360
gctgcaaacc t 371

<210> 17859
<211> 418
<212> DNA
<213> Glycine max

<400> 17859

tggcgggtcat ctccaaagtt tgagtgggtca tggtattata ggttcatggt gaggtggtat 60
acagcctctt caaggcgggt taggggtggct atagtgagtg ggtatggtgg aaggtaaggg 120
ttctggtagg tagaggcagc catgggcggc aggtcgaacc aattgttatg agcagagggg 180
agggagaaaa ctacacttct tggtttcgag gaccaaggcc tcctttgaaa gcaaagtatc 240
gaaaattctt ctctgcctta ttcattcttt cacattgctt ttatacaca ttgtacatgt 300
acaactgaat gataattgtt acaactgaat ggtaactata ttaacagaat aataactgct 360
ctaagtatgt gatactattc ttatgataga cttccatggc agagctttgt cataacta 418

<210> 17860

<211> 373

<212> DNA

<213> Glycine max

<400> 17860

ttcttctagt tttagcacia aaaaaaaaaag gaaataaaaa taggaatttg ttgatgaagt 60
gggcaaagga aactcattta tttgttcgag agagagaaaag aaaagggttt tgcaaccctt 120
ttaatcatat ttgattcatt tttgacattt aagcttctgg tgtttttctt ctgataaaca 180
tcaacttgta aggccaagtt aaatgattta aataataaaa tcgatgataa tatgtataga 240
gacactgaat ggataaactg ctatacatta gaattactat gcagtgtttc tgtgacaaat 300
tgctagaagc atatcattta ttaattgagt aaccaagcat atgtactata atatatatta 360
aacttgtgtt ttt 373

<210> 17861

<211> 433

<212> DNA

<213> Glycine max

<400> 17861

cagcttgcca ccataggaag ccatggataa gagcttgatg gtatgagaag atgaattgag 60
ggagagggga agaaggagca cgaaattttg tgccctcaaaa gaggtttgaa ctttgaattt 120
taattttcaa atgattaaag ttcaaaaaaa ggtacacaca tgacctctat ttatagccta 180
agtgtcacac aaaattcgag ggatatttga attttacttg gatttgaaat taaatttggt 240

gagccaaatt ttggaaccaa aatttcacta attatgatta gtgaatttta gttatgggttc 300
 agtccactaa tccaagatca agtccaagat tttccactaa gtgtgcttag gtgtcatgag 360
 gcatgtaaag catgaaggac atgcacatag tgtgactata tgatgtggca atgggggtga 420
 gcaagcaa at gtt 433

<210> 17862
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 17862

tcttctcaa ggaagttttc tcaagaaagc ttctcaagga agctacctag tctataaata 60
 gaagcatgtg taacacttgt tgtaactttg atgaatgaaa gttttatgag atacacttca 120
 aagttccact tctttccctc ttttattcct tcaatttcgt gctccccct tctctctttc 180
 ttttctcca ttaaagcatc ctcttcaagc ttcttatcca aggcaattct tgggtggtgaa 240
 gtccttctt ccttggttta ttccctagtg gatggtgcct cccctatcct cttctccttt 300
 gccttccgct gcatctccat gatgaaaaat caccattgaa ggacctcatt gaagatcata 360
 gatccatcct ccatag 376

<210> 17863
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 17863

tcagctatag tatgcccag tcatcattcc ctatgagatg ttgttgaagt attggcgatc 60
 agaatagcca ttccttggat tataagggtg aaccaagctc atgcttttac aaaaagggtc 120
 atcaagtcaa gttgaaatat ggaagtaacc gtcttgcaaa attggggcaa aagattaatc 180
 gagtcacatc actgcttcat ctactgccaa acatatttag gattattgat gtccttggtta 240
 cttccaattt caccttgaca aagatgtcat ggaccatgtt gaaaatctaa attgattcaa 300
 ccccatatct tgcgtaaaaa ttgcgaatac ttcaattgta catcatcgc atgcatccat 360
 gcatttcatt ggttgcatg ctggttgcat tctttccttg aaaaataaaa ttaaaatgaa 420
 cttaat 426

<210> 17864
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17864

agctttgatg gtgttgagaa gaaatcacat gtttgtcatc atcaaaaagg gggagaatgt 60
 gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaacaag gctcattttg 120
 cttaaagatt aatacaagat tgtttcaaca aacaaagcct tgattcaaga tttcttcaag 180
 atcaagcctt gcctcacaaat gaaaggtttc aagtcattca aggcacatgt aatcgaatac 240
 caatacatgt aatcgattac caatggtttg aaagtgtgta atcgattacc agagactcta 300
 aacgttggga attcaaattt taaatgaagg gtcacaactg ttcaagaaaa acaattgtgt 360
 aatcgattac actaattatg g 381

<210> 17865
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17865

tgctgtgcc aaccatttc tgcctaaacc cattccgggt tataactcatc ccttaacata 60
 actcaggcca cttttaagga ggcaccacat caacgtgggt gcaccagaag agcctccata 120
 taagaatttt tcacaatttc tagtgcttga aaagatgttt ccaatgactc ttccgcagct 180
 tccacatagg gtataaaaga tggacatctc actagtatat cttcttcgct caatacgata 240
 atcagctgac cctccaccac aaacttcaat ttctgggtgca acattgatgg gaccacacca 300
 acagaatgga tccaaggccg acctaaacaag aaactgtaag cgggtgtttat gtccatcact 360
 nggaaagtta tttggcacat gtatggccca atttgaatcg ggagatcaat ctctcctctc 420
 acgtca 426

<210> 17866
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 17866

agcttgtgag ttgtcacccc actttttccc tattcgatga agtcttcatt cttgtggggtt 60
 tttctttaac attatttcat tgtgtcattt gtttgtttaa taaggatata catagacaaa 120
 accaaaatta attatcacaa tccatcctta gatcatgatt gacgcataaa ctatgattca 180
 cttagcttga ctagcttggt agaccctcat tatcaacata tatgaatact ttatctaaga 240
 atcaaacagt tcatacataa taatcttcat aattttttaa aacattgtag ttatataatt 300
 agcatttagca catttacatg gtaaaatcac caacaactaa aaatacatag atcgtctcta 360
 tctttatctt tattcatat 379

<210> 17867
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 17867
 tctagatcta ttccattcca gtgtgaattc accgatggtc ttacatgcct atcaattttt 60
 atttggttag tcttcgaacc acatcatact ttgagagagg tatgctctga taccacaaaa 120
 cctactcaca cataatgtct gggtgctttt aggattgttg gttgttccca taaattaata 180
 taagactttt tgggtatgtt tgtccacact tactaaaaaa acttctcaga aggtcaccca 240
 tcccataatt actttaagct aaccatgttt gactatagag ttcttaagtg atggattacc 300
 gaaaaatata ttcatctcgt tagtataggt aatactaatt aatttctaag ttatcctcaa 360
 ttgtgcagtt tcatacttac accatcttta gatctctctt attctgaggt gcat 414

<210> 17868
 <211> 200
 <212> DNA
 <213> Glycine max

<400> 17868
 aagtgcgccc aggaaactca tttatcttgt tgccagagag aaagataagg cttttgccc 60
 ctttttcate atatatgatt catttttgac atttaagctt ctggagattt tcttctgaga 120
 accttcaact tgtaaggctc agtgaaatga tttaaataat agaatccctg atattatgtt 180
 tatagacact gaatggataa 200

<210> 17869
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17869

naatgaacaa ggaanaacac ttgacttggt tatatgtaa atcctatnct tgagaaagct 60
 ccttgagggt ggaggatatt atgcactaat tgaaaatttt ctccagaata ggatgattga 120
 tggctgtaag ttttatgaga gaaagacatt acaatgactc tattgttaca agggatgctc 180
 atcaaaaggg gaaagaatag gaaatgatct ctgcatccca aagtatgttt ctaacacccg 240
 atttcgcacc tacactcttc ttttttaaca gaacatatta catcacccat gtttgaaata 300
 tatttgctta acaaatacgt catagagaca taaattat 338

<210> 17870
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 17870

tagctttatg catatggaat caaaatataa caaatgacat gtatctcatg tcaaaaaatt 60
 ttttacactt cttcttaaga atttcctatt gacaatttaa ggtaatatta tccattacga 120
 aattctccat tgagtcagtt caatggtcac attcatatgc acataattta tatatgtaaa 180
 ttaataaatg agatctatta atgttcattc aatgaatact atcacatatg tcaatctatc 240
 caaattatta atgtcatatt cataataatc ttaggatcaa gaacaattaa aattaaaatt 300
 atgagagact tttttctcat tttcataatc tctattatga taacaaatct ttaattttta 360
 tcaaggacct tatca 375

<210> 17871
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17871

aatgaggcta aagattctgg gctcatgaca atanaatccg gtggagaaca atccatctgg 60
 gccttatttg tcacaagata gtgacatgga gtggatggta aatatttgtc acaacaaagg 120

agctttatct caacctaat tgttgcagca ctctatatctt atatattaca attattcatg 180
 tttggcattt gcatgtaggt ccttgcaact attgttccac caatagcaag gaataagcta 240
 accataacaa gagccaaaca aaggaagggtt gctgataaag atgatgcagt ataaagaaaa 300
 ttgaagacca attttttgtt gcattatgaa agttgctgag ttagaagggtt gctgatgaag 360
 acaaccgaag aagcattttt ttgttgcatt atgatattaa gatatgcagt tgta 414

<210> 17872
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 17872

agcttgatga ttattcagtg gagatacgac tgggctatgg agatggatct ttgaccgaca 60
 caaacatgat gaccatgggc atgcaggcaa gctctaaaac cacctcaata acaactagag 120
 ccaactagaa ccaattctaa ggaacaacta tctataaaga caagtcttga ctatcgatta 180
 acgttaatat gtacgagatg atatcttagg atctaaagct acacaactct catctcgatt 240
 gaggaacca gacttattga tgatgctatg gctgatgaga aataagcatg atccgtgctt 300
 gacgaactat gacaactcat gaagaatgat gta 333

<210> 17873
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 17873

tcatgatatg ctttatggcg ttcaatatct tgcgcgttat ttatgaccat atatgtgtaa 60
 tatacatcgc agtgcaaata atcaatgaat atttgagtag ctgatgcata tcataatggg 120
 cactgcccac ctaatacctt ctctgcttat taattacat aaagtatacc tcttgcataa 180
 gaactcctga actcagacca tatgtgataa ccttgtgcta ctttgatact gaatcatcat 240
 cgtatgatgt ataccctaca taagactcta tagactgtct tgaacattca tcttgactat 300
 ctttaccacc tcagccttga atgaagctat gactaacatg tgatccttta gcatcatcat 360
 atcattccgc ttgatcctta gactactgcc ccaatccctc aatcctagcg actatacaca 420
 tacctattg 429

<210> 17874
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 17874

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agcttcacct tttggtcctc ctcatagttg ttgcatgaga aaacatgctc tattttcatc 60
tcccactcca tgtaggcctc cggatcattc tttcctttta aggaggaat gttgagttta 120
ataccatcaa ttcgattttg tctaggaaca ccatcattcc ctcttctcct cctttcttct 180
tcattatgat ctctattctt catttgatcc aacctctcat agagcgcac atcttggttg 240
ttcattaacc tctccaaata ttgcatcaaa gcttgcatth ggaattgcga aagccccact 300
ccatcattag gattagtacc tgacatctca aacaaacaaa tcaaactgtt caagacaatt 360
atagttgttg tctga 375
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<210> 17875
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 17875

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tcctcggggc catttcctgc gaaggcaaaa atttggaag ttagttttac cagtgggaca 60
ctactcttaa aacaaaaatg gcatacaacc tcctccata aatacaaaaca tcaatgtaaa 120
tttagagcaa gcttatgcgc atatttcctt acgaacgttc acttgacaaa gacatcctat 180
caactaagaa aaatgcaccc atatacaatc aaggtagctt cattacctag attatttaca 240
tgtacttcct aggtgtatth gttatttaca tcacacacgc ctcttggct gaatttacat 300
acatacatat tcaaagcatt ttgggggtacc aaaaattgca catgcgcccc tcttgggtatt 360
tctaataccc atacatatac aaacttcacg atgaatcttg actacctaca caataaggtg 420
ctacatttca tgc 433
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<210> 17876
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 17876

agcttgctca taaccgtttg acatcttctt tcataccttt ccaaaataaa ttggaagtca 60
acctccgata tgtcctataa aaaccggaat gaccagcctg aggagtagaa tgaaattcct 120
ctagtaactt ctgaatccaa ggagatttct catgcaccac caacctccct ttataaagca 180
gcactccctg attataggag aaaccggtat gggcctcttt atcctgtcgc aaatcacaaa 240
taaccttttt ccagtgggta tcttgctgca cctcatgagt caactgctgc caatctaacc 300
actcaagata agagatcata ttagtcaatt cggcgtcctc caaactcctt gacagggcat 360
cagctccttt attctcgtt 379

<210> 17877
<211> 433
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17877

tgccattntt aaaatatcac aattgcaaatt tgatgatacc ttgttgataa tagccttaga 60
agttgattat cacaagtcaa attgaaaagt tgcaccatta caatgccata ctatttaacc 120
acaaaagagg atttaataga aagtcacact aactgtaact tacaccacgc ctacttaaga 180
cactaagtat aaacattgca tgaaatatac atgcattcag tgtaaaacta aaacctcgtg 240
gttgaatgat cttgctacat taaaacatca gttgattttt ttatcataca atagtgatgt 300
tttaattcaa tgggcaacaa taaactctta cactatcaat acaatattgc acatagtaat 360
taacaaacac atgtagtctt aaactaaaac caagtaaata aaccatatct aaagaactca 420
tgttgcaagc taa 433

<210> 17878
<211> 380
<212> DNA
<213> Glycine max
<400> 17878

agcttttctt ttagcaaagc aaaggcttgc tcttgttttt caccacaggt aaatgccaca 60
ttctttcttca ctagctcatt gagaggtgat gcaattgtag agaaattagg aacgaacctt 120
ctatagaagc ttgccaaccc atggaagctc ctaatatctc tcacactttt taggggtgggc 180

cattcttggg tggccttgat tttctcaggg tccacttggg cccatttct accaactaca 240
aaccctaaga aaaatatatt atctacacaa aaagtacact tctctatatt tgcataatagg 300
gtatttttcc taaggactga aagaacttgc ctgagatgac ctaagtgatc atctagggtc 360
ctactataca ctaaaatatc 380

<210> 17879
<211> 432
<212> DNA
<213> Glycine max

<400> 17879

gtgagaattt cccaaactct cttttcattt ctgatttaag gcttaaataag gtggccttgt 60
tgggtgcctgc ccgcttagcg caaatatggg ccgcttagcg tacataagtg aatttcggct 120
tagcgctcgt attctcgctt agcagatgca tgcaagcagt gtgttttagcg ggatgagccc 180
tcacttagca cgtgtgtcca gctcatcctt cttccatatt cttcctcgcg ctcagccgca 240
agaggggtgt gctcagcggg tggctcgcta agccgacaga ttggcttagc gagaagctaa 300
aaattagcac ttcacaaaact tgcctaatta tcttgaaatt gaaaggaaat gattattaaa 360
tacacaaaat aggagtatta agtacttatt acctatatct aacaaagagt aattacaaca 420
ctacaaaatg ac 432

<210> 17880
<211> 383
<212> DNA
<213> Glycine max

<400> 17880

agcttatgct gcaaatatctt acaatagacc tcctcaacct cagcagcaaa atcaaccaca 60
gcagaacaat tatgaccttt ccagcaacag atacaacctt ggatggagga atcacccctaa 120
cctcagatgg tctagccctc agcaacaaca gcagcctgct ccttccttcc aaaatgctgc 180
tggcccaagc agaccataca ttctctcacc aatccaacaa cagcaacaac cccagaaaca 240
gccaacagtt gaggcccctc cacaaccttc cctcgaagaa cttgtgaggc aaatgactat 300
gcagaacatg cagtttcagc aagagaccag agcctccatt cagagcttaa ccaatcagat 360
gggacaattg gctacccaat tga 383

<210> 17881
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 17881

ttgacttgag tcacaaagag attatagaga tgtgaccgtg gcatgagttt caatgaatga 60
 tctctcatgt atcatctatc tttcaatcta tctttcaata tctgctttca tctctttcaa 120
 cagatctttc taaattatct ctcttcatgt ttctaagagt gtttgtcaac actttctctt 180
 ccaagaaaag tttttggttc aaaaacttgt gctattcatc tttttcattc acttatccct 240
 ttgccaaaag aaccaaggac taatcgctg aattcttttg tgtctctctt ctcccttaca 300
 aaagattcaa aggactaacc gcctaagaat tctttggatt cttccctttc ccttaagaca 360
 aagatgacca atgactaacc gcctgagata tcttttggtt ccccttaca agattcaaag 420
 gactaact 428

<210> 17882
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 17882

tgtttaagtt ctctaaatac atgttcattg gacatagaag acaggggact tttgtatact 60
 tttgcagaca aatggcataa ggaaactagt agcttccata tgctcataag agagatcagc 120
 ataaccctca atgatgtggc atcagtatta catctacca ttataggtgt tttccatacc 180
 tatgatgcaa tagatgtaga ccagattgtg gagttgctag ttgagttgct tggagtgact 240
 acacaaaaag aagtagatga gatacaaca tgtaaagggg catgtgttcg ccttgccctgg 300
 ctacaagaca ttaccgtac gatatgtctc acaaggcaat ggacactacc aactaaagca 360
 tatttggttg atatt 375

<210> 17883
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17883

ntgaatgctc tattcaatgg agtggacaag aatatcttca gactgatcaa cacatgtaca 60
gtggccaagg atgcttggga gatcctaaaa atcactcatg aaggaacctc caaagtgaag 120
atgtccagat tgcaactatt ggccacaaaa ttcgaaaatc tgaagatgaa ggaggaagaa 180
tgcattcatg acttccacat gaacattctt gaaattgcc aatgcttgac tgccttggga 240
gagaagatga cagatgaaaa gctgggtgaga aagatcctca gatccttgcc taagagattt 300
gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtggatgaa 360
ctcattgggt cccttcaaac ctttgagcta tgactctcgg atagggtga naagaagagc 420
atgaatctg 429

<210> 17884
<211> 376
<212> DNA
<213> Glycine max

<400> 17884
ttgtctttca agtttttaag ttcttctca gaactgtcct aagcaaagtt cccaaagtcc 60
tattaacaac ttccgtttgc ccatctgttt gtgggtgaca agtggttgaa aataacaatt 120
tagtgeccaa cttgtctcac aaagtctctc aaaaatggct tatgaactta tagtccctat 180
cactaacaat gctccttgcc aaaacatgga gtctcacaat ctccctgaaa aacaaatcag 240
ccacatggga agcatcatta acttttttac atggaataaa atgagccatt ttatgaaacc 300
tatcaacaac cacaaaaatg gaatctctac cattgcttgt ttttggcagc ccataacaa 360
aatccatgga ttaatc 376

<210> 17885
<211> 428
<212> DNA
<213> Glycine max

<400> 17885
tgcattaata gcaacaaata cagagtaatt ggtgattatg aaaaactgat cagaattcaa 60
tagtaataac aaaacctcaa agagagtatt gcttgatcct caagagaaaa caacgttgga 120
gacttagcct tccattaatc agttgaaaac aaaattgtag attgaagtag aaatgaaatt 180
gcagaaattg aaattttatt ctacgtgaac agtgtgcatg aacaataaaa actggaattc 240

taaaattcta gaattattct cctcttcgac aaactctctc taaaactaaa accttggtgc 300
 tgttatatag gtcctcagcc ccaaagctta caaatctggt ttaagtccaa gcccataaat 360
 aaaataaaat ctggacaaga taagataaga ttggatgaaa taaaatctag atgaaataaa 420
 atctggat 428

<210> 17886
 <211> 371
 <212> DNA
 <213> Glycine max
 <400> 17886

agctttatcc ttgacatta gcttattgtg cgttctgaaa cacacaacaa cctttattgt 60
 gaaattgtaa aactctcatc cccttgattt tgtaaaacac gccaaagtcct tctatagttg 120
 cattattggt tgagaaatct atgaaacaca ttattttttg catatttttt tattgggtcaa 180
 aatttattaa aaataatgaa attgattaaa tgtgatagtt ataattcaaa atataagata 240
 gttatttaat ttttgttggc cattatttaa tctcattttt agttgagata aattagacaa 300
 acacttttag aatagataac caggtgaatt taataatcca aggctgacta aaacggcctt 360
 ccagtctcac g 371

<210> 17887
 <211> 423
 <212> DNA
 <213> Glycine max
 <400> 17887

tgtccttggt ttatacatga ttatacatg atttatgact ttaggattc aatttgggca 60
 aaattggatg agggcaagtg tggtttcgaa aatctgcact ttatgcagaa ttttgcgtgc 120
 aaatatgtgc agcagaattt tgtatatgtg cagaaaaatg cttgtgtatg gctgggtggtg 180
 gaaagggtag tacatatggg gttctggata tttgctagca gatccaacg gtcaaaatgt 240
 agacttatgt aatagagact tccagtaaaa ttttcgagtc gatccaacgg ttaacgaatt 300
 gtaacgaaga gaatgttatc ggggtattag agtgtgaaaa gctgtgatat tgatttgtgt 360
 tttgagcaaa gtcttctgcc tctgctctgt aatcttggct gtgctagtgc atgatgcttg 420
 tat 423

<210> 17888
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 17888

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tttcttcttt atgaagcctc ttaatgaagc ttctagagaa agctacatgg agctgcctcg   60
gttaaaacga tgtccagcgt tttgtagccg ttggatcttc gcaaaatttg gtttgcaact  120
ccacaagaca cttttccatt atctgaccgt tgggatcttt gagaagatgt ctggagtgtg   180
ctataagtat cttaaagaag cttctggagg aagcctctta atgaaagctt ctagagaaaa   240
ctacatgaag ctgcctcggg agaaacgctt cccagccttc gttaaccgtt ggctcttctc   300
gaaatttggg ttgcaacttc acaagacact ttacatgat ttagccgttg ggatctttga   360
gaaaatatct ggagtgtgc                                     379
  
```

<210> 17889
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 17889

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tcctcggagc catttcctac gagaacaaac atttagttgt tagttttaca agataatgct   60
tgtcttaacg caaaaaaatg tcatgctaata cctccgggtt tagaacgaac tcatgcgcac  120
gtttaaagta acacatttat gcacatgtgt atgtgtagaa taccctacta ttcatatcaa  180
catagaggcc atccaacaca ttctaattgt catacatata tatgcatttg aaaagaacac   240
acattctcac gattaaggca ttgcgtcaaa atttacctt aactatgtcc tagacatttg   300
ctatcacaaa ctaccaacac aactcgaaa tatatatacc atacaaactt tcattgtttc   360
actcacactt atgcatattg gcaagatatt tacattatgc acatacttgc attca       415
  
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<210> 17890
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17890

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tagctttgga caaacaaaac atgcaaacta gaaaatgaaa tcaaaaacta aaaactgaaa   60
  
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cataaatata aacctaaatt ataaaatgta ctaaaagtag aataataata aaagtgttca 120
aaagaaagga aaatagaagt cctgtcatgg gtcctgtggg gcagaagggg caaaatccat 180
ggctgtgaca tcattcctcat cctcaaagag ctccagcaca ggctgtccta ctagtgatgc 240
ctatggggaa gacaactcca gcacaggtgt ggtcactggg gatggctgtg gagttgtctc 300
tggagtagcc tctgcagcgt cctcctgagt agttgggtca ggctctggga tctctacgtc 360
aacctctgga tcaacatt 378

<210> 17891
<211> 417
<212> DNA
<213> Glycine max

<400> 17891

gtgagcaaat tcaaacgaca ataactttta actcggatgt ccgaataagt cccgtaatat 60
atcgagacgc tcgtaattga aaactgaagc tctgagcaaa ttcaaacgac attaacattt 120
gactcggatg tccgattgcg tcccgtagga tatcgagacg ctccaaattc aaaacggaag 180
ctttgagaaa aatctaacga taataacttt taactcggat gtctgatcga gccctgtaat 240
atatcaagat gctcgaaatt gaaaacggag gctctaagaa aagtcaaacg acaataactt 300
ttgacttggg tgtccgattg tgtcccgtag gatatcgaga tgctcgtaat tgaaaacgga 360
agctcggaga ataatcaaac gacaataact cgaaattctg ataccagggg acagatg 417

<210> 17892
<211> 398
<212> DNA
<213> Glycine max

<400> 17892

atagctctag aggcgagctg ccggctttct ctcttgaaat tgaacaacaa aagctgtcga 60
gatattcaaa atgggtcataa cttttaactc ggaggtccga ttcaggcgca tcacatatat 120
atacgctcga gattgaacaa cataatctct cgacatatat atatagtggg aacttttaac 180
tcggagggtc tatttatgca catcatatgt cgagacactc gaaatcgaac aatggaatct 240
cttgagctat tcaaattggc ttaacttttg actcagaggt ccgatgcaag cgtgtaatat 300
atcgagacgc tcggaattgc gcaaccgaag ctactgtgaa ttgaaaatgg ccgttacttt 360

tcacttgag gtccgatata cgcgcatata tattttaga 398

<210> 17893
<211> 422
<212> DNA
<213> Glycine max

<400> 17893

tctagtcgtc catagacctc ctctgtggta ctgtctatca aacgtcgcat ctgtgcattc 60
atcgcatcca ctaacagacg ttgagcgccg tccaactgat ggtactcgtc accaccacca 120
cctgctccag ccataattca acaggaaaaa aaatgtgcaa taaaaattat taaggtttca 180
ggacctcaca acactctact cacgtctctt agatggtagt acactcgtgt ttaatgctct 240
caataggctt ttgtgtaatg tattccctct tgccttttac cactcgtgtt tcctcttaag 300
ttcctggatg gaccaaatta gacacacaag gtaatataaa ataaaaggaa agacaatata 360
atgatcacia acagatttga tttgggataa caacttggac ttgatttga tagtaatata 420
tt 422

<210> 17894
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17894

agtttggttat gcaaaatggt tgactatctt acctttccag acctttgggc aggaacttga 60
aactaaagat gaccaggagc aggttcatta acagtgatag ttatgaaaag ctggaatgca 120
caagcattaa ctaacattag tgaaatgggc ataggaatat aaaactcatt tgtagacaaa 180
aagacattaa agaagaaaac atgaggaaaac acccttcaac ctcagcctac acataaccat 240
gtccatgaca gtcccatttt caatctttta ccatgtccat gagaaaactg catagttttc 300
aacaatgtac acttcatcta aaatattcat tggactatct tcagagagta tgtttcttan 360
atgaaaaagt catgata 377

<210> 17895
<211> 428
<212> DNA

<213> Glycine max

<400> 17895

tcaacgactt taacacgtac ctgctagttg tatttttctg tagtgtttga atacaggttt 60
taatacatgg tttaacacata tacatgtata tataaaaagt agtaacaatg tgcttttacct 120
gtacttgata taatgaaaca actaccacaa gaacaccaat ggacaaacca acttcaacta 180
caacaaagta attcagcttc acctggagtt catataatga ttaatggcat tagaagaagt 240
caaagccaaa ccaacttcaa gtacaacaaa ctaattcaac tttttatcaa ccaaactatg 300
tcaaactact ttttggtctat taaaagtgtt agttattcat gtgacaggta tactattcta 360
gtttctattc atcattaaga ttcacacagc acatatagtg ttctcatagc aataccacac 420
acagacag 428

<210> 17896

<211> 378

<212> DNA

<213> Glycine max

<400> 17896

agtcacacaa gttacccagg actacgtagg tctgaattcc tcatttgagg atacatagga 60
gcaagagcct cgcttttgtc ggccgccccca caattttctgt catactgaca ctggagtcac 120
gtgacatgcg gagataccca agtggttgtc cgcactttca taaacattct tttgctatct 180
gtaggacaga aagcctgata gcatgcagag actaacatcg tcttctgcac ccttcgtcaa 240
tcgcggccca acaagcccgt tgacatgcgg agatttacgt catcttccgc gtcacaaga 300
tctgtcatac tgacatttga gtcacgctga cggacggaaa taccgagtg gttatccgtc 360
taaacattct tttgctat 378

<210> 17897

<211> 432

<212> DNA

<213> Glycine max

<400> 17897

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ttaaccttga cttgatagaa cctcttttta agagaagggtg cctgactcga tcccatgttt 120

tactaaagtg aaacaaaacc cagtgcgaat caaaactccg acatctatca tgggtgggat 180
 ggatgaatgc attaagaaat gcatatgaca cagatgcaat ttatgaatac gggagcccgg 240
 gaaattgtcg ccttcttaga tacaacattt gggcagcatg gcgctcgaca tatgtattta 300
 agaaggcgac acggaccctc cgtcggtttg acaaagtgag gggttcaaga cagaatccgt 360
 gcatgatgca tatgcgaaag gcacaacacg aggatgtaca tagtacgaca atatccacaa 420
 aaaaatataa gc 432

<210> 17898
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17898

agcttgcccta tccgatgcag ccgtaatgat ggcccagatt atgttgggga acggttacga 60
 acccgggatg ggtttaggca aagacaacgg cggcataact agcctgataa acgccaaagg 120
 aaatcgtggg atgtatgggt taggctataa gccactcag gcagatataa agagaagcat 180
 cgcggaagg aagagcggta gtcaaaactc gcggttgaga caagaagggt aaggaagccc 240
 accctgccac ataagtagga gctttataag cgcggttctg ggggacgaag gtcaagtgg 300
 cgcgatatac gaagatgggt ttctgagtac attggatttg gtatgaccat gccctcctga 360
 tttccagctg ggaaattg 378

<210> 17899
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17899

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 attgcctccc tcgccagta ttatgatcag ccgttgaggt gcttcacttt tggggacttc 120
 caactatcac ccatggtgga agagtttgaa gaaattctgg gatgccact gggaggaagg 180
 aagccatata tttcctctgg gttctatccc tccatgacaa gagttgcaa ggtagtga 240
 atctcagcac aagagtttga ccgtgtaaag caaacagga atggggtagt cggagtacca 300
 aggaagtgtt tggaggaaag ggcaaagacc ttgacaaatc aaggcgaatg ggcttctttt 360

attgacatct tggcgctttt gatcttttga gttgcctctt ttccaaatac ggaaggggta 420
gtggacctag 430

<210> 17900
<211> 382
<212> DNA
<213> Glycine max

<400> 17900

agcttgacgt ttatctcaaa attgcaaaga catgaccttg tgagagggtt accaaggatg 60
tcatacaaag atgaaacaaa ttaaaacctc tttttcaagc aaaaactttg tttcctcaag 120
accacttgaa ctattacata ttgatctggt tggctacaat gaatgactac attagatgga 180
catgggtaat gttccttgct cataagaatg agtcctttga ggtattcttt aaattttata 240
aaagagctta aaatgaaaaa aaagtatgcy ttacttcaat tagaagtgat catggtggag 300
agtttgaaaa tgagaacttt cgtctattct atgaagaaaa tggaactttt cataatttct 360
tcatgtcata ccctaatttc at 382

<210> 17901
<211> 420
<212> DNA
<213> Glycine max

<400> 17901

tgtagaatgg ctagacatga tacatgtcag ggtttgtttt ggttcaagga taaaagggat 60
gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaatt ttatgcaaaa 120
ctggtcatgc atgcacctat gtggacgctc aagtgtcaaa tttttatggg catgtgatgc 180
tagggctcag gattcatttc ctctatttta aatcaacca atgtttccaa aatatgttct 240
tttatcaatt tgtgcattca tccgagtcca tttcgggcgt ctaggaaaat tttcacagca 300
ttcaccttc aggtgtacac acacattttc caaaaattag tgaatttttt caaagaaaag 360
ttggaaatca tctcttttca taagcatgtc ggtttttcag ctagacaact tatttttctt 420

<210> 17902
<211> 384
<212> DNA
<213> Glycine max

<400> 17902

agcttctcag ctctgtccgg gaactcatcg aatttagcac ccatacagcc tagagcgccc 60
gcctccatcc aaagggaggc cccccaagct ctggctccaa ccacgactcg cccggctggc 120
aatgcccact ttggcacggt ttccaacgcg atgaggaact ttcccccgag gccaatcca 180
gaattcaccg cgatcccaat gacgtacgaa gacctcttgt cgtctctcat cgccaaccag 240
atggctgtga tatctcccgga gaagatctac caacctcctt tcccaaagtg gtatgaccct 300
aacgcaactt gcgcgtacca tgggaaaacc ccggggccact ccacgaaaa atgacctggc 360
cttaaatata aggtccaaca tttg 384

<210> 17903

<211> 436

<212> DNA

<213> Glycine max

<400> 17903

ctcagctctg atttataggt ccgcttcaat caagtatcca ttgtttctaa acagacatat 60
tgcctttctt aagcttgtgt ctgaaaaatg tgggtgttgg ggcattaaat gcgtgcattc 120
aatgcacata cttcttcatg ctgaaaaacc actctttgtc actcgtgtct tgaacactac 180
aataggaaac cacttctttt tgtgttagaa catgtttggg caatagaact cttcttttga 240
tggaaattga aaaatttttag aacttgactt catttattct tcatatgatt cgataaatca 300
taggagaatg tctttgcaaa atagatctta aacacagagt attaaatgaa gtctaataaa 360
aactctaata ttgtatcaga tcatgattcc atcttgctac tatctggaac atcagatgca 420
aacttcgagg aacatg 436

<210> 17904

<211> 377

<212> DNA

<213> Glycine max

<400> 17904

agctttcata agtgaaatca agtgcaacca tttcccttag agtcctctca cgagggtggag 60
gttgagccat attttcagaa tgttcaaaat cagaatgctc aaagtcagaa tgctcaaaat 120
caccaaccac agaatgctca gactcaccaa taacaaaatg ctcaggatgc tcaaaaggta 180

caaaatgttc agggtaatca agatgcacac tatgcctaac taatctatga aatgtcctat 240
ccatttcagg atcaaagggt tgtaaatacag atggattgcc tctagtcata cactacattc 300
aacatgcaca attagttgcc ttctcatgca agtaacagtg taggtttgaa ctacaactat 360
catcaaatga tatccaa 377

<210> 17905
<211> 420
<212> DNA
<213> Glycine max

<400> 17905

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atttccacc atggagatgc agcggaagac aaaggagaag aggtaagagg cggcgccatc 120
cactagagaa taagccttgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
gcttgagag gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga aacgggggag 240
cacgaaattg aaggaagaaa aaggagagaga agttaaactt tgagttgtgt ctacaagac 300
tctcattcat caaagttaca acaagtgtta cacatgtttc tatttataga ctaggtagct 360
tccttgagaa gttttcttga gaaaacttcc ttgagaagct tctttgagaa aacttccttg 420

<210> 17906
<211> 375
<212> DNA
<213> Glycine max

<400> 17906

tttcttctcc cccaattttc tataaatagg gggagaagtg aagtgaaaaa gggttcagcc 60
ccttaggcac ttctctctct ttcgaatttg cttggaaaaa ttgtttccgt gaagaaaatc 120
taagccgagg cgcttccgaa atgtttccgt aacgtttcca taaggaattt ggcaaggtt 180
tcgaccgttc ttcgacgttc ttcattcggt cttcatcggt cttcgatctt caacgggtaa 240
gtacctcgaa ccaagctttt caattcattc tatgtaccgg tgggtgtcaa cattgtgttt 300
cgtgtatttt tattctcggt tcatttactt tttatacccc cttttgacgt gcttaagcca 360
ttttatttaa gtcac 375

<210> 17907
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure.at all n locations
 <400> 17907

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nttgcaagct gactagttct aggctcttga ctttgacatg atagaaccgt tttttaaaag 60
agagcgcttg gttcgacccc tatgtttgct agaatgaaaa ttgtgatgat gaatacaaca 120
gggaatatatt atgctatgca tgacaaaaca cgcttaccta cggacgcaag agtccggaag 180
accagccctt cttatccaca atgcattagg catcatgggt catccgcaga cattaccatg 240
gtgccc aaat gcatgcaatt aagaaggatga tgcggacctt ctagctcccc gtgacaatga 300
tgatgagaca aatgcgaagc gtgagtgatg aactgtggg agtatgcatg cagcagagca 360
tgtggtttgt agcacanaga gaaacatact agacgaacga gcatgacaac ataataaaat 420
aatgc 425
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<210> 17908
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 17908

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agctttatgt gtgtattaga gtgctctcaa actcgggtgtg tcttttctcc ttggcttgac 60
tcccttttta tagctgctgg agtggactcg ggcttgactc cctttctata gttgctggag 120
tggacttggg cctgatgcca aaaaatcttc cttatttata tttttgatca tttctggatt 180
attttttttt gcttttaatc cctcattttc atatctgtaa gtcataaata agaaaaatat 240
caattcctaa catttaagtc aaaaataact gctaaataaa tattttttaa gatattttca 300
atatattttt atcataaaaa atagctcata tttaacagtt ataatttttt ttgtcgatgt 360
tggtttggac tatttt 376
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<210> 17909
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 17909

tatatattaa ctattgataa tttcttttga aaatattatt caattcgatt ttgaaatgaa 60
aataaaaaat ataaactatt caatgatata tatatcaa at tcaatgatgt ggaaaaaaaa 120
tgaaagaaaa gttattttat atgtacaaaa aggtaacata agaacacggg tctacattaa 180
gcatcatggc ctatagtgtc gtgtccctac attaaattga atagagttgt caattccggt 240
tagactgacc catttgagct aatccatcac ggatcaacac atttttgtgc gaatcacgtt 300
atgtcaagcc aattaagtga caagctaaaa ttttgcta at ccagtacagt tattaacaaa 360
ctgtaagcca aattaatgaa ctggctcatg aaccatccat ttaattttta aaaatgtata 420
aactattaa 429

<210> 17910
<211> 336
<212> DNA
<213> Glycine max

<400> 17910

cataaattgc aagagaatgg gagcaatgtg gcatgcccc a ttgcttcaga atacaaccta 60
tgcctaaggc cttttcattc aaatcctcaa ttcaagaaaa caagcaccaa agcaaaacaa 120
aactgcctta caaatataag catgtttctca caatttaagg caccaaagga tgaagaaagc 180
acatcaatgg aaagcaaaaa catcaaggat ggaataactta cttgttggag tgaattgaaa 240
taccaaaaaac gaaagcaaaa tgcgatcaaa aggcttaggg gagcaagaaa ccgcaagcct 300
ttgtgttctc tatctttgaa tgaggcgggg ggggag 336

<210> 17911
<211> 422
<212> DNA
<213> Glycine max

<400> 17911

tgtctcagca tctatgcgag acagaaacca atatgttata tatcatcgcc aagtaccaag 60
aagagttggg tctagccacg gccacgagc atagaatcgc ggatgagtat gcccaagtat 120
atgcggaaaa agaggctaga ggaagggtga tcgactcttt acaccaagag gcaaccatgt 180
ggatggatcg gtttgccttt acctgaacg ggagtcaaga acttccccga ttgttagcca 240
aggccaaggc gatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300

attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
 tgggtctctca gaccttgact agatatgatt tctttttttg aaataaaatg agttgggtccc 420
 at 422

<210> 17912
 <211> 378
 <212> DNA
 <213> Glycine max
 <400> 17912

agcttatcgt aatcgattac ataattcttt ttgagacaat gactaatttt tcaggagtcc 60
 ctactttaat ctattaccag gtgatataat tgattacttt tctcttaaata gtatttcaga 120
 agtgatcaag aacactttta tcagttacat tgagaatcta attgattaca ttgttcttga 180
 aagttttcca attttttggga agaacacttt aaaattactt ctttgaaata atcgattgca 240
 ttgtataaat agccaccttg tatcctcact taaaacaact tctaaatgag ctagaattag 300
 gagctaatat tagtaagata aagaagagga aaaaaaagtg ttgaaatata gtgtgactca 360
 taacttctaa ccgctcat 378

<210> 17913
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17913

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 ttatgaccag aagtgtgaca gcaaacact gagaaagtta agttaattca ggaaaggatg 120
 aaaactgttc agagtagcca gaaaagttat catgataaga agaggaaaga tctggaattc 180
 aaggttggtg atcatgtatt cttgaaagtc actccgtgga ctgggggttg tcgagcattg 240
 aaatctcgaa aactcacacc tcgcttaatt ggtcctttcc aaattcttaa gagagttggc 300
 cctgtggcat accaaattgc attaccctg tctctttcta atcttcacaa tgtctttcat 360
 atgtctcaac tccataagta tatctgtgat ccatcccatg tgattgaatt ggatgatgta 420
 caagtga 427

<210> 17914
 <211> 375
 <212> DNA
 <213> Glycine max

 <400> 17914

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 atcacacaat atcaccaaaa ggtttttatac aacaaaatat tacgtcacag agtatagaaa 120
 tcttcccacc ccaaataatc atcaaaaagg gaaaactatc ctacactcag agcagtcagt 180
 acccaaggcc cacaactacc tcctgaggaa tcgtgttact cgtcgggtga aagcatctct 240
 ccctcaagta tctcttcacc aataacatcc atgtagtagg caatctcaga cgggtgtgaga 300
 ttgtcatcat cactgaaatc tccaacatcc tcgtaaactt taatggtcct gtctctggcaa 360
 aaggtagatc tagta 375

<210> 17915
 <211> 429
 <212> DNA
 <213> Glycine max

 <400> 17915

 ttatggttgt ccaaattggc caccattgtc aaggatttat ttcaaaaagc taagaaaaag 60
 gataaaaaga aggccaatga tgatgatgaa gactatgtac ctgaatatga aggggggactt 120
 agatcaaatt cttcaagtga aaattacgag aacgacaaac atgatgagtt tgctattaca 180
 aatgatcttg agtcacgaaa aaggaaggta agtcttgaaa ttttttcaat ataatgctaa 240
 tatacattat tttgttaata aatgagtggg gtgggtttgt gagtgagatt aagatatata 300
 ttgtgtttat tgatgatcta cacaagtttt caatgcaaga aacaattcag ttaaaaacaa 360
 tgtacccatg taatagatat aaaattgcag tgctctatgt tatgcaatgc aatcaatatg 420
 caatatgcg 429

<210> 17916
 <211> 373
 <212> DNA
 <213> Glycine max

 <400> 17916

 agcttggact tctttgtcct cctccggtgc ctcaaaactc tcttcgctga cgacttttaa 60

cttggcgagc caatctaaac ctcgatatg aactttcagc cattcatggt agccaccaat 120
gatgccatta tgaatgcctc taagttcttg atctttcctt aacgggggtt cccatgcctt 180
atggattctt tgtatagtct tagaattttg tgcgcacaaa tccctcacia ggaaaggaga 240
catgccttct tccgttggtg ctccctcat ggggtaccct agttgtctta tagcgagcgc 300
gggattgtag ttaatacaac cctcgttcc tatcagcgga atgtttgggt atcctccaca 360
tgagaaaagg act 373

<210> 17917
<211> 428
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17917

ntagccttag gttgttcacc atgttgctcc ccctatctct accaatctcc cccttttggg 60
ctttgatgat gccaaacatg aatacaacat taagtgcatt tggagtctta agattggatt 120
ggagacttga tcacttagtc ttatcctaaa aaattattaa cacttgagaa gagattaatt 180
catcatcatc atatatgtca atacatcata tatatatata tatatatata tatatatata 240
tatatatata tatatatata tatatatata tatatatata tatcaatgca tcatcatgta 300
tatcaatcaa gaatgcagtc aatatcttct tctccctctt gtggcattaa cacgggaaaa 360
aagttaatta ttcacaaaac acaaacacac atgtaagaag agatataaaa cttatttca 420
ttaaactg 428

<210> 17918
<211> 375
<212> DNA
<213> Glycine max
<400> 17918

ttgtttgtgg aagaatgtga aaacctctga aatattctag agatgtatgg aaccttctgg 60
aactttataa aagaatagag aagagagtag aagagtataa agactcctaa aatgtgtgga 120
acattctaga gaattaatct ccaacctagg atacaagtaa tcttcacat ccattataga 180
ggtggagtaa tataaataag agtaggagct tatattccta actatccaaa aaagagtga 240

ttcatttctt agagtgagaa agttagaaaag ttaaatagtc tctttgatag agaaaataaa 300
tagctgggaa aatctttatt ctcaagcttg agtaagtcac cgtagaatga gtgcaattta 360
taattacatc cttat 375

<210> 17919
<211> 365
<212> DNA
<213> Glycine max

<400> 17919

tgtcattctc catggtgtga agcgaccggt gagctcttcg ccggagaata gaatcgatcc 60
tcgccgcgag cgcgcccgaa gttcaaccca gaaccaaca ttcctatgcc caatgaaaga 120
gaaggagaaa aaaaggggac ccaggaatca aaaaacggtg cttttatgga taaaaactcg 180
ggtgtgtgtg gtcaacggtg tttcagatag aaagaaattg tggggaattg gattgggaac 240
gatgaggatc tgtctgtggc gattctaggg tttgggggaa aggggtttct gattttgttg 300
ttatgaggaa gaaaggtttg agtagagagg agttgcttct gtgaatcgga aagaatgaaa 360
gaaaa 365

<210> 17920
<211> 380
<212> DNA
<213> Glycine max

<400> 17920

tagcttggtg aatctaaaat caaagattct aaaccaaacc ccaaccgtcc attttgcac 60
atactttctac tactcaactt tcatccccac cccttcccaa gttacaatcc ctaaaccagc 120
caccacctaa cttcccatc ctacaatgaa atcaacctaa atgcaagacc ataaaaact 180
aagtttattc tacaactgcg atgaaaagta tgtgcttggc cataggtgta gtgcgaagca 240
ttttctcttg ttgttggtcg aggatgatgc tgattctaaa accattgacc cagcaactcc 300
taaccacccc cccttgatga ccagtcagaa cctatacatt tccatttttc ccataagcc 360
tttactggat cccttcccc 380

<210> 17921
<211> 350
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17921

cggcttttggg ttagacatga ttgatacatg attttggact tgtaggattt gatttgggaa 60
agattggatg aggggaagtg tggttttcga aatctgcact ttgtgcagat ttttgctgtg 120
aaattgtgca gcagaatddd gcacaagtgc aaaaaaatac ttgtgtgtga ttggctgtgg 180
aaagagtagt gcagaatgag ttctggatgt ttgctagtag atcccaacgg gcaaaatgta 240
ggcttatgta ctagagactt ccagtaaaat nttggagtcg atccaacggg taacgaattg 300
gaacgaagga attgttactg gggctctttaa gtgagaaaag ctctgtgattt 350

<210> 17922

<211> 376

<212> DNA

<213> Glycine max

<400> 17922

tgcttctaaa ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
gatatcttaa gaaggggggg ttgaattaag atattccaaa ctttttttcc ctaattaaaa 120
atctatctta ctttttactt aagttatgaa ttcccttaat gacaatcttc ttaaataatta 180
attcaaata gaacaactga atatgaatat aaagcaataa taaataaagg agattaaggg 240
aagagaaaat gcaaaactcag ttttatactg gttcggccac acccttgtgc ctacgtccag 300
tccccaagca acccgcttga gagttccact aacttgtaaa ttctttttac aagttctaaa 360
cacacaagga caaccc 376

<210> 17923

<211> 431

<212> DNA

<213> Glycine max

<400> 17923

tatgagcatg aaacctttct ccaccaaccg agatagtaac atctaattgat tcctcatcct 60
ctaacaacat cccaaaatgt tcaccaatat cagattcagg aacctgtatt gtgtttaact 120
gagaagaatc tatggacgac actaaaaccg caatagtgcg atttatcttc aagcagtcac 180
ccttgagaaa atttgacgtc tcaagggtgc tccgtttgaa aaaccgcgta tagcccctat 240

tacgcaacaa gtgcatcatt gatcactata tacgtaatgt acaccacaaa aaatggatac 300
aagagctaataaatcatgat gatataccaaa tcatatcacc aaaatcacaa gggtctcttag 360
ttccttttga aattttaattt ttatgtctta tattctaata aaagagctat ctctttaacc 420
cctgacaata g 431

<210> 17924
<211> 379
<212> DNA
<213> Glycine max

<400> 17924

tgcttggtc aagaaggact ggtaagtaga aggccaccat actcttagag caagcaactc 60
catggcagac catttagcgg ctaagggcaa tactttatct attagcttac acgtctattc 120
acactcttat tactgactgt aatctccaaa tgtggagtga ttgtataggg gttactctac 180
ctagaaacgt tcctgcgtaa tggcttttag cctcctttga ataacaataa aattgtgcaa 240
aattttatta aaaatatctt tgtgaatttt tatttttata acttgaacca tgcataccac 300
ttatacaaac tgcacgtgat tcgcattatt gatgcataca attaaattag tatgaaactc 360
attcaactaa caaaagtca 379

<210> 17925
<211> 405
<212> DNA
<213> Glycine max

<400> 17925

gaaactcaag cttgtataag tgaaaggccc cagggaccga ctctcttatac agcttagagc 60
atggctattg ctgcgttttg attatggatt gacgattgat gttcgtaaag agaaaccttt 120
gtagatctac acaaattgatt acaagttgct taaaagttct atacattgaa gtttattgct 180
ctggctcatt cttcatcgcg agaggaaatt cactttgatc gcactttttc atttacgagc 240
attactcttg taaagaagag gaactgctct ataccatgaa tgaactactc tacatcgaaa 300
gtagtcctc ccgaacagaa gtataccacg atagagtcaa tgaactaatg acgtattgga 360
gcccaagtca aaacacattc atgctagcat gctttcactt gctga 405

<210> 17926
 <211> 548
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17926

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ccacacatac taactacata accgaatagt taactaatct aatatagaat gaatagtata 60
tgaaatataa aaaaannaaa aagagatggg gactcatgga catacgaana canatggcga 120
tatnaccgcy ggaacctcta gagccgacaa gcaggcatgc tagctcagtt tgttaattag 180
agaaacagca ctctagaaa taatatgtaa tattcactcc tccccaatca tatacatcac 240
ccaaccttta atacttgtgc aaacatcaac aggcaccttc tcgtaccaa ctagacatga 300
ccacacaaac tatcgctgca ttgtacataa gtacactaat aacctcagta aatactcgct 360
accaaggact gtcaatgaaa catacaattc gaaaccgcac aacctgcatg ttacatgtga 420
cgacagagat ataaatcctg tcacaaagaa cacgaaccac aaacgagggtg tgactacgat 480
gaatcaacac acaaaaagtt aataaatcct aaaacgatca aaactgctat tatgattcca 540
cacacccg                                         548
```

<210> 17927
 <211> 512
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17927

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cccgccctcc cacacacggg gcggcaataa tatcagctat atcgccacnc ccncnncaga 60
gagaatgacc tgaaccctga aactaagaac tcagcatctc aggcgctcta tatatagacg 120
gcttttcacc agtgggcaca ggactctgcy agtgaagaga gagactaccg caaactgtca 180
gagacaaccg agccgcctg gatgatggag aaccatcgac gcacgcacaa cttggctgct 240
ggtgctagga aataatggaa aaacatcatc tggcgtggcc tgaaggagac cgaaaggagg 300
acaccatcta tagcccataa ggggtgctaca acggccaacg gacctgagaa aggagcattc 360
gcaaacaagc cgttgtggga agaagacata taagccaagg agcatagagc tctgaatcat 420
gaacactgac atattactca tgcattgtcca ctggggcccc aaataaaacg gcacgctatt 480
ggccgaaata aagtgcaaat gcacgaggct cg                                         512
```


<210> 17928
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 17928

tgcttggaga ggatgcttca atggaggaaa agatagaggg agagaaagag agagggggga 60
 gcacgaaatt gaaggaagaa agagggagag aagttgaact ttgagttgtg tctcacaaga 120
 ctctcattca tcaaagttac cacaagtggc acacatgctt ctatttacac actaggtagc 180
 ttccttgaga agctttcttg agaaatcttc catgagaagc ttctttcaca aaacttcctt 240
 gagaagctag agcttagcta cacacacgcc tctcataact aagctcacct ccttgagaag 300
 cttccttaag aagattccta aagaagctag agcttagcta cacatacctc tctaatagct 360
 aagctcacct ccttatgatg ag 382

<210> 17929
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 17929

ctgaatggag gctctgatct cttgttgaaa ctgcttagtc attgtcctca caagttcttc 60
 aaggggaagg tgtggagggg cctcaactgt ttgatgtttc tggggctggt gatgttggtg 120
 ctgtcggatt gctggaggaa cgtatggtct gctcgggcta tcagcatttt gacaataagt 180
 ctgctgttga tgctgctgct gctgtgaagg atccgaccat ctaaggttgg gatgattcct 240
 ccatccggga ttgtacctgt tgctggagag gtcataatta ttctgttggt gtctgtgtgg 300
 ttgccagcat aggagcataa accacagagt ctggcgacag gcgcagatta ttgattcatg 360
 gccatttggg ttaccagggt aaccaaggca tctagtttac cttcaagctt cttagtc 417

<210> 17930
 <211> 83
 <212> DNA
 <213> Glycine max

<400> 17930

gaaacccatc atcaacaacc gatatatttc atttaatgat gcctcatcct ctgacaacat 60

cacaaaatgc tcaccaatat caa

83

<210> 17931
<211> 360
<212> DNA
<213> Glycine max

<400> 17931

acacataaac atgtatagaa agttaataa attaagaagt aatagggtcaa ataataaatt 60
gaaattgaga cgaaaattaa gtatcatttc agaattcaac acataaaata cttttatatg 120
cactcttttag ttttaattatt tattaaccct tttaaattga aaataatagt aggttaattg 180
taatattata caacattatt gtgtcaatgt aaatattaat attgggggaa gtgtatatga 240
ttcatgaggt gtgataacat gttgcgctaa gattataaca ctgtgattga gaatgagtga 300
atgtgataaa cgaataatgt ttgaatcgga agatatatgt gtactgagat tttatatgca 360

<210> 17932
<211> 245
<212> DNA
<213> Glycine max

<400> 17932

gcattattta atcatggaca tgagactctt gtttaatcta tagcatattg acacgtggat 60
gaagcattgc ccacacttgg ataaactctt catctgggtg agtatattgt tagacaaccc 120
ttaactaatt aacaatacct actcatgtga ttgtaaaatc ctatccatcg actattagca 180
gctacggtta tactcacacc gacaaacagc gtcttcaaga cgaggcacct cttcataaac 240
atggc 245

<210> 17933
<211> 371
<212> DNA
<213> Glycine max

<400> 17933

ttttttgagg tggaagccat gtggccaatg gctaacttgg agctgtaggt gagttcctgc 60
tgggataaga ggggaagagt ccaggatttg gatctgcacc tgtccctacc acttgctcta 120
aacttgata tatttgaagc tgatcatttg tctgtaaaat aagtgaaaga ttgaaagagg 180

attctaaaat tatcaaaagt gaatttttaa accacatcag tggatcagaa attaaccaaa 240
acacgaagtc cttacagttc ctatattcaa tctcttggtg tcccaatcat aaaccaactc 300
ttttgaagct aaccgctttg tcccaagtgc ttcacaccta taaagtggaa caacggttag 360
ttaaacgtaa t 371

<210> 17934
<211> 422
<212> DNA
<213> Glycine max
<400> 17934

tgtacgaatg tgagaaacat cttcttctac cttggtgagc ctggacttca tctcattgaa 60
gcgcatgtcc acttgtaact ccaaagtatc aaacctttca ccaacaaagg tttgaagacc 120
atcgaaccta tccaaaatct tttgaagaag agaggaatct tctccaccat gtaaattgtcc 180
ttcttcatca acgggtcgag caccattttt cacccaagag ccatcatgct ctttttgata 240
accaaaggat ccaatgacag caaagcctat tacaaaggat ctcttgattg gaacataagg 300
ttcagaatca agagggatgt taaagtgtcg aaagaaaagg gtgactaagt gtggatatgg 360
caatggagca ttttaattgca atgccttatg catgcgatat cgaactaagt atgcccaatc 420
aa 422

<210> 17935
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17935

ttctttaata taataattgc attaatagaa ttaatatata tatatatata tatatatata 60
tatacacaca ctttttttct tttatttact aatataacaa attgcacaat ttattaaaaat 120
ttaagaataa ttatttgtaa gagacagaaa ggaacaattt acaattgatt aaaatttaaa 180
atttaacgcg tcggagtcaa tagcaatcag aacaccactc taaattttta caaaataagt 240
cgtgcctttt ctttacgggt canaataaat caagtctata tacaattttc tatatatata 300
attgacatat agccaatcaa tagtagtaat tatgacaaac aagaataata acatataaag 360

ttatttttaaa ca

372

<210> 17936

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17936

tctctcagca actntgactg caaaacttca cagggtgctac atggcttctt tgcaagtgac 60

aagacaagct ttggcatctg agtctcagag aacaccaccc tcagtgcaaa atgcaacaac 120

ctccacaacc acaccaatta gcaacaactt cagtgtgaag agtgagcaaa ctcatgcagt 180

gttgccacat aagagaccag aggaggagca agagtcagag gcaaatacgg gtgtgaaaag 240

ggttaaggct gtggaaaatg ttcctctgca attcaagcct cttgaggaag atcacataga 300

gcaaatgatt gaggagcttc ttgattatgg atctattgaa ctctgctctg tcatttcacc 360

ccangccctc taattgaatg tgcattgttt tgagctgaat ctaaagtcac aa 412

<210> 17937

<211> 340

<212> DNA

<213> Glycine max

<400> 17937

ttcatgctat tctgtacggg taaagtctca cgattgtcac atgtcgatgc aacaatgggt 60

attcgtgggt atacaagaca tcttgccaaa caaagtcaag ttagccataa ctgcctgtg 120

cttcttcttc catgccatat gtagcaaagt cgttgatcct gtcaagcctg atgaattgga 180

aatgatacc gcaattatac tatgccatgt ggagatgtat tttccccctg ctttctttga 240

catcatgatt cacttgattg tgcatttggg catagaaatc aaatgttgag gtctgttca 300

tttgcgagg atgtaccggg ttgagcgata cttgaagatc 340

<210> 17938

<211> 424

<212> DNA

<213> Glycine max

<400> 17938

taaataagtg tactaggagt agttgtctat ccgctcgtcc attctcaacc aattgttact 60

cgacctcaat ttgcaccttc actaccacca agctaaccac caccgccacc atctcaacag 120
 tgatgatgat gtccttcaaa cattatggct cggttcgaac cctgtctttt ctttaatgac 180
 aaaagaaaga gaaaatataa cgagaatttt gatgtaaaac aaaagatgta ttaatatatg 240
 agtagtttgg tattcatgtg ttttcacgtc catatatata tatatatata tatatatata 300
 tatatatata tatatgccta tttatctttg gtctactcat ttttacatgc attaagattg 360
 ttggactcac ggagagttct tacagaacct atgtacatat atactctgat atagctcctg 420
 caca 424

<210> 17939
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 17939
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 agcaagaaat gactgaaagt gcccatgttg tgagtatctc taaagacaag gggttaaagga 120
 aaagaatcga ggagcccaag aatgaaataa gcctgaacat gtaaagaaga aatgtaccaa 180
 atatcatgcc tggagtgcga agaaaggat gtttggtact ttgggtatggt ctgagggtcaa 240
 ttttaacttta gtacctagaa acacttgggtg gttagatttt ggtgccacta ctaatatcaa 300
 ggggttccatg caagggttgcc taagctatca aaagccaatt gattctaaca gatggatcta 360
 tg 362

<210> 17940
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 17940
 togtectcag atccctcttg ttggactgag cccagtttag acagccttcc taggtttaga 60
 ctaacttaaa ctaagcttca tctcatatc cctcttggtg gactagactt agcttaaata 120
 gcttacgaaa gtttagccta atttacccta agcttcgtcc ttagatccct cttggttgat 180
 tagacttaga ccaaacaaca ttattgtaac aacatactta aaacaaaaac ttcatccgca 240
 gatccctctt gtaggactaa gtttcaattc tgtttcattc aagttctaag gcaacaatac 300

atttctcaat gctaaagtca cctaactatg catacaaatg gatgatcaga ccaagagcat 360
acataattta agcactaaaa gaagcattga acacacgaaa cataatcaat ta 412

<210> 17941
<211> 357
<212> DNA
<213> Glycine max

<400> 17941

tgcttgccctg tccgatgcag cagtaatgat ggcccagagt atgttgggga acggttacga 60
acccgtaatg ggtttatgca aagacaacgg tggcataact agcctgataa atgccaaagg 120
aaatcgtggg aagtatgttt taggctataa gccactcat gcagatgtaa aggggaagcat 180
cgtgggaagg aagggcggtg gtcaaagctc gcggttgaga caagatagtg aaagaagccc 240
gccctgccac ataagtagaa gctttataag ctgcggtctg ggagacgaac gtcaagtggg 300
cgcaatatac gaagatgatg ttcctagtac attggatttg gtactacctt gcccttc 357

<210> 17942
<211> 413
<212> DNA
<213> Glycine max

<400> 17942

tcgcacttga taatggatac acatgaacag cgctaataca tgacattcat ggtgctccga 60
ataaagggtg agtatggagg attgccttga gggtcctctc ttatgcaatc atggaacaca 120
gctccaaact cgaaagtgga ggacacatga acaaccctaa gcaataacat tcatgtggct 180
ctggaacacg atgagaatgg aagattgcct tgacggctct ctcttaggca atcatggaac 240
acagctccaa actcgaaagt ggaggacaca tgaacagccc taagcaataa cattcatgtg 300
gctccggaac cggatgagaa tggaagattg ccttcagggg cctctcttac gcaatcatgg 360
aacacagctc caaactcgaa agtggaggac acatgaatga caacgcaatt caa 413

<210> 17943
<211> 382
<212> DNA
<213> Glycine max

<400> 17943

agcttagccg ccacaaatta ctttagacca aaccatttca taggtcacaa aatcaacatc 60
aaacgttgtc tattaagatg caaacatact agtctaacgt cttatagata cacaatatta 120
agctcattgt ctttttctct caggatttac aagatatttt gaaagctttt tacaacttaa 180
aaattttgaa ttcagagact taaaagatga aaaatgaatt tgacaaaaaa aaaataactaa 240
taatttcattc gcaacaaaat tcacaacaaa ggttggttga gggaattgtc aaacaagtat 300
ggaaaggtag aacttgcaaa agtctttgac agtcacgtt tttaaacttt tatgttatac 360
tttccaaagt cattcattat gt 382

<210> 17944
<211> 412
<212> DNA
<213> Glycine max

<400> 17944

tgaaggtagg agaagatgag tgaaaggaga gggatagaag gagcacgaaa ttttgtgcct 60
caaagtgggt ttgaactttg aagtgttaatt ctcaaagac caaagttgaa aaatgcacac 120
acatggcctc tatattatagc ctaagggtca cacaaaattg gagggaaatt tgaatttcta 180
ttcaaatttc acttgaattt gaaattgaat ttgtggagcc aaatttagga gccaaaattt 240
cactaattat gattagtga ttttagctat gggtcagccc actaatccaa gatcaagttc 300
aaaattctct actaagtgtg cttaggtgtc atgaggcatg taaaacatga aggacatgca 360
caaagtgtga ttatatgatg tgacaatgag gtgtaacaag caaatgctca cc 412

<210> 17945
<211> 363
<212> DNA
<213> Glycine max

<400> 17945

tgcttggttt gtgagtggat gttagcctta gtttcacttg gttatttatc aactcattca 60
aaagaacttt caaagtaaaa tggtcgattg gagcttattt accccctttt tgctaaccga 120
ggttatagtg tgaatgatcc ggtgaatttt attttaacag tgattagatg agattacaac 180
acaaatgatc tggtgaaatt cattttatca ttttattacg tgagataacg gcttaaagga 240
tcggttgaag ctcgttgaaa acggaagaaa aggataccaa cagtaaatga gatgaagatg 300

aaagcataca aagcaagaat ggaccactaa tgggtgcatag aatgaataga aagcttttgag 360
atc 363

<210> 17946
<211> 220
<212> DNA
<213> Glycine max

<400> 17946
ggggggggtg gccgaatgaa gattgggcct actagtcccc caactcagaa gcgctatcgc 60
tgtgtattca agttatcatt gtctcttaat gacgatctta ttgaatgtga agccaaatac 120
accagtgcctt atatgagtat taaagtgtca ccaatacggg agattacggg aggagagact 180
gcaagctcag attcatacta ggaatgcctc gcgcttgtgc 220

<210> 17947
<211> 377
<212> DNA
<213> Glycine max

<400> 17947
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ctcaaaactt gtggccataa aatagtataa ttattggaag ttggctctcc caataacaca 120
aggcagccaa tcacacttta cacacaacca accaaatttg aacatctcgt ttgcattttc 180
aaaatgggac aatctattct aaattcagat tccaagcctt aggttgcact ggtgcaagct 240
caaaaatgat atgcctaagg cactgctcac taataaaaaat aaaaataaca gctagataat 300
tctgtctaca aatctttctta attttatctg cccattttta gctcaaccaa gtaaacgtac 360
attcgacatc ttttatt 377

<210> 17948
<211> 377
<212> DNA
<213> Glycine max

<400> 17948
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ccagacatac aagggtcttat ttaccttgca ttactcaaag aagttttaac taaaaatttc 120

ctataagcct tatcattttg atccaagggtg cctggagatg agaagcagat agtgtaaaca 180
gatatctcaa agaaggcatg gtgacttttt ttgtattaat aatcgaaatg aatgtgaaca 240
gagtacatac ccatcactct ttaagattgc tagcaaacac aatataaggt aaatgcaaat 300
gcgatgccct ctacattgta aacgaaactg gttatacaca ttataggagc ataaataata 360
ttgggaagca ctgaatt 377

<210> 17949
<211> 379
<212> DNA
<213> Glycine max

<400> 17949

ttgcttatat gcaacataaa gtaactaaca tatactctaa ttaagagggt caattacctg 60
gcttctaggc tctttgttgg tctgagatta attggtttct tccttgcttt aatgcctaata 120
ccgcttgaaa cggtgattgg tttaggtata tgtgctggcc aatgtaagtc tgattctgca 180
gaatcactag ttgcaatctc aagctcatca gattcatatg tgggtggccat atcaaacaat 240
tcttggttat cctttctatg caaggagtgg tccatgcata ttttagaagg ctctgagaga 300
aaggttggac ttgacattgg agaagattgt tgctttctgc ttccactgcc ccacgagact 360
atcatcacta ggtaagctg 379

<210> 17950
<211> 399
<212> DNA
<213> Glycine max

<400> 17950

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tgcattgactt tattataaccg ttctaagaac atactaagac cttgagcatc cattgctgca 120
taatccttca tatataccat aggccaaagc cgtaatatct ggcgcagcaa tgctatttgc 180
atccacaatc cgcttcgggc tcctacaagt aaccaagttt accctcacgt gatatactat 240
gggcgaaaca ccaatagaca catgctcact gacgaaggac gtactcaaata gtgccgctag 300
actactagga tgtgactact aatactactt tactatgctc atacgttaag atatattcat 360
gattcacata aacatattcc ccacccccca cccccgaag 399

<210> 17951
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 17951

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ggttacttcc tcgttgacat cttttgtctt gaatggaatt gccatgacag gtttattgtt 120
actgtctttg atatttggtg gttgatattg tgttgcgagg ggtaattccg attggattaa 180
ctcaccatcc ttaacttgcc aatttggtat gacatttggt gttggatcac ctatgatgtc 240
ttgtttccaa gggaatcta tattctttct gatggcataa gcatgaaacc aatcaaagaa 300
caggacatta attttgactc gttcgacaaa ttcgtacaac ttgtcttgga tttgctttct 360
gtttgacacc tgtaatg 377
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<210> 17952
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 17952

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tacaagactt tcttagtaca ttagaagaaa ttcctagttc cttgagcatc cattgcaaca 120
aaatccttca tatataccat tggccaaagc cctaaattct gcttcagcaa tgcttctagc 180
taccacaatc tgcttcttgc ttctccaagt aaccaagttt cccctcacgt gatataatat 240
ggatgaaaca ccaagataca caagtaaaca gatgaaaaat aaatccaaat gtgcagctag 300
acaacttgca tgtgactact attactaatt tactatgcac atatgtaaag atatattcat 360
tattcaacat aaacatatcc cccaccccc cccaccccag aagaaaatgt actacaaggg 420
aaaggatatac catta 435
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<210> 17953
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 17953

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tctgatcatc atgcattgat aaatgcaaaa aaactggggc aactgaagag ggtgagaatg 120
agggagaaaac ccatgatgtg attgccattc ctatacaacc aagtttccca ccaacccaac 180
aatgtcatta ctgagccaat aacaaacctt ctctttaccc accacccagt tatccacaac 240
agccatccct aaatcaaccc ccaaagcctg tctaccgcac tttcaatgac gaacaccacc 300
tttagcacia accanaacac caaccaagaa atgaattttg cagcgaataa gcctgtacia 360
tcacccc 367

<210> 17954

<211> 416

<212> DNA

<213> Glycine max

<400> 17954

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catttttttaa caaaacgggg aaggtgggtg ccacctact cgcccagggt agctagggtg 120
cttccacctt aagcatgaaa ttgccagaa acctctagaa ggacccaaat ctgaaaatta 180
ttatttgcac ccttcatttt actaaatata cccccctttt tacttacctt ttatcggaca 240
tagcaggaaa gtaaagataa gacactgatt tcgtccgcct tagccttttc cgtaattaat 300
ctatgataaa ttccaaaggt catcctttgc ccatcatggg gatttaattg atcttaatca 360
caatagttcc atccaaaacg atatgaaata attgactccc gtctttgctt tttctt 416

<210> 17955

<211> 367

<212> DNA

<213> Glycine max

<400> 17955

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tcaaacacac tatatatact agagaaagag aataaacaca ccagaagtaa aacaaaactt 120
atttcttaat aaaacaatta agctccagag acatgaacct gcaggaagat tcagagcttt 180
catactggca atagcgcagg aggggcaaaa tagcattagg gaaatgtttg tcttctgatt 240

gtttgttgggt tccaaaagca tctccatagt gatcactatt ttcagaattt gcagggccag 300
aatcttctct ggctgttgtc ctatcattta caggatcagt aagcaagaca tcatacataat 360
tgattct 367

<210> 17956
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17956

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gtggaggtct tgccagaagg cggaatgggc ctggaggccc aggaactcgg ggggtgcgagt 120
gggtgtgaagc gtgtagcgcg tgtcttcgta gacggccaag acggaatggg aagctcgaag 180
cgcgtgggct tgttgagggt cgagagtggc agcgaagccg ttgtaagcgg cgggtgtaggc 240
atagaggaga gagtctggag aagaatcgag tgtggcagtg taccagtcac ggtgcgtggg 300
gtgcacggtg gaatcgtggc ggtgtttcat gtgtactatg taagtcttct tggtcgcaga 360
tagtagtggt agttggagga gaaagaatga gaagaaggaa agggaaattg atgac 415

<210> 17957
<211> 390
<212> DNA
<213> Glycine max

<400> 17957

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ctttaaagga tatgtttgcc acactgataa agcttactgc aacatttttg gaattaaatc 120
ttagaagata agagatggaa agacaaaaat cttgtgttta ataaaaattt aatttaattt 180
ttaatatata agacataaaa tatggattta agacgattac acatgtttta tatgttactc 240
ttttgttata aacattacat aatttcattg attaattttt ttaaaagaaa tcacttattt 300
ttttctgtct ctccagaaag ttcttttgca ggatgcatct aatactaagc taggagcatt 360
tttaaccatc tatatatata tatatatata 390

<210> 17958
<211> 357

<212> DNA
<213> Glycine max

<400> 17958

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tgtacataat ttttaaattt tctaaattcg taacgcacgc gtgttaagaa ttacctgaga 120
ttattaagtg tgcccaaaat gattttgggc ctatttgagc tataaccctt ccagatttag 180
aatgagggtg ctattaatta cataacttctt attcatttgt taatcctcat ttgcctcttc 240
gacttacagc aagaggggtg tgagccccac tacttttatg cggagctata cacatattag 300
atatacggtt cttaatactc attactgaat agtaaagatc atttctaatag tcatcta 357

<210> 17959
<211> 371
<212> DNA
<213> Glycine max

<400> 17959

atcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
gtggatgacg cctcctgtca cctcttctcc tttgtcttcc gctgcatctc catgggtggat 120
aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
gcaagcttcc atcaaagtgt atgaatttta aaatccaatc ctacagtctt ttgaattaat 240
taaattcggtt attattgggt ctgtaatttt atgtatcttt gacacactaa attcgattat 300
atattgctatt tcattccttt agttatcttc gtcaattaaa caaaccatg atatttcgat 360
taaacttgta c 371

<210> 17960
<211> 376
<212> DNA
<213> Glycine max

<400> 17960

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ttgccaaatt gattgtgaaa gaatgcattg accgtatccc ggtgagagtg tgatccttaa 120
attttgagag aaatgactat catttaatac tgatttttgc atgaatcttt gaagtatgga 180
ctgaatgcat gaaattgagg atgatgaagg ccatgtttga ttgggatagc cacttagcca 240

cgtgtttgaa tgatttatcc tttgcaccta atttgagctg aatgaattat tgattgattg 300
aaccctgagt ctatagagcg ttatcttttg ctaccttgac ttacgttgta tgagagcatc 360
attcacagaa agtgtg 376

<210> 17961
<211> 460
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17961

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tgatttttgc tattaacttg ctgcatgcag attgttggtg tcaactcgacg agattgcgtg 120
gtttagatgg tatacctatg ctacacaata taccatatat gtttgatccc tgtggtaagt 180
acagcatcac attgattgag acatacacia actggcgctt gataagagca tgaacatcta 240
ttacagaact cggggttagt acatcgatga tcctatgcac atatcgctgg gtaccataca 300
caatacgatt atgacatcga gtgaagacaa gacactgtgc ctggaccatc gttcatgaac 360
tacaatgcac taatggcaag ctatatattt gaatcatcag ttcgcataac tcaccttcca 420
gatgcgacta catagagtca aaattgacag tatactatcc 460

<210> 17962
<211> 371
<212> DNA
<213> Glycine max
<400> 17962

tttcttttcc aacgatgtcc atcatctcta caaagacatc accgccttga cgaacatgaa 60
attatagaac aaggaaacgc agacctacct tggtaagctc gaacgattaa ttgctgatta 120
taacactttc atgcccttta cgaaagacac aaagacttct aataagaagc acatccagca 180
ctttatggcc cttgtccttg ctggtcagac attcctttgc tctttgctcg cattcttcta 240
atagcggagg gcaaagcaaa agtcgtggag gtcaaagat gaaccattca tgtgcaacta 300
tcgctacatt taggggcata ttaagtccat tggtgcaaca agacttgcca tcaaacaaaa 360
tctatgaatg t 371

<210> 17963
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 17963

tgaaagcatg taacctacca tcatctcata gtcaatcacc agtgacgtgt ctactatcat 60
 tgtgatcatc tgcctctcca tcattgaggg cactactoga gctggcaciaa ccgtccataa 120
 ttggatgtat gtctttgaaa gattcacgct ccttattaca cacgtacttg aatcccattg 180
 tattcgtaga catatcagaa tggcagtgat actgcctaata gaaggcgacc attcagtcct 240
 tccagaaatt gactcaagaa agctcctgat tagtatacca agtgacagtt gccccacaca 300
 gactcttctg gaagaaatgc atcaacaaat attcattttt ccagtatgcc cccatttttc 359

<210> 17964
 <211> 142
 <212> DNA
 <213> Glycine max

<400> 17964

tttcttgtct ggacggggcc caagttatga ttgcccttgt tatgtaagag aaagtgttta 60
 catcccgaac tgggtatagg cttaaaattg ggttgtatag ctactctaga actgggcttg 120
 ggaaggagtt acaatgggtgt at 142

<210> 17965
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 17965

gctatagagc tctttcactc gctgagacgc tgcattatgt tatgcatacg ttccttacaa 60
 gcctgagggc gcaattacat cacatcatta accttttgct caatagggc tattagacaa 120
 gcagatggct gtgccacca gtaacgatga ttgattccca ctgtaactca caacgaagag 180
 tcccgttgcg catttgtcac tacgagggac cgtgctaata gcgttgagag aattcaagac 240
 gatgggcatg acggagttgg actatatatt gatgaggggtg atcatgacat aaccatgcat 300
 attggtgaag atgactctgg cact 324

<210> 17966
 <211> 295
 <212> DNA
 <213> Glycine max

 <400> 17966

 agcttagcct ctacgaacta ctaccaccca gaccattaga ttcgatactg agccttcac 60
 ccacgacgct tattaatagg cgagcatagt acatttacgg catacaaata cacaatatta 120
 tgctcatcga ctatttgtgt tacgatggac cagataatcg ggaggctcct aaagagggca 180
 taatctagca catttagact taccttatgg tatatgatta cgtctggaaa ttgctactag 240
 tactctactc atttcgcatg cctcatgaaa agctgtgctg tgggaattga tgtac 295

<210> 17967
 <211> 318
 <212> DNA
 <213> Glycine max

 <400> 17967

 tgagcgctgg agactgcgcg tggctgttaa agtatagaga gagtactaga ggaaccgcct 60
 cccgtggagg acgctgtctg aaacgtatct cttacttgac cgacgtagta tgacgcgctc 120
 gcgtcgctc tatttatctc ctatcggaac ttcgatgctg ctgggacgtg atactcattt 180
 ttgctatata actgacaagt atacattcca tccttgagac tcgccctaaa gagccaagat 240
 cgcactaatc acgctgactc atacatatct ctggatctgc ctactattac tacatcgtgt 300
 tacatataca ttactcca 318

<210> 17968
 <211> 376
 <212> DNA
 <213> Glycine max

 <400> 17968

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 atattggctt tcaagggttg tttctcatca taaaaaaaag gaggagaaat taaatgtaaa 120
 acatgacctc ttgtacttta agacactact aaaaaaatag gtttttaoga cgatgtttaa 180
 agtcggttgt agaaaaattg tcattgtatt agtttcggtg gcaattttgt aaatactgcc 240

cacatttcaa agacgtggaa aatcgttttt gaaatgttgg tagtaatcaa agacagtttt 300
 gcgaaaattg tctttgaaac ttcatttttt ttcattcttc atttttaatg cctcatcttc 360
 attatagaag cccacg 376

<210> 17969
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 17969

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 aagacttcac atcatttatg aaatgcatac cactaccaaa tatcaatatg tcatccacat 120
 tcacacattt atcattatta ttgatttgaa aaccatacaa aagaacaact tgatcaaact 180
 tttcgtgtca ttactttgga gcttgtttca aatcatataa agatttacca agaattctata 240
 agtagtacta tgcaaagaat atccaacaaa aacataatca acagtctttg gtccaatttt 300
 ccttttctta ttaataggga tgtaaactt tgctagacac ccacacactt taagatattt 360
 tagatttgat tatctttttc tccatagctc aaaaggggta ttttttaaaa aataattata 420
 aggtaccata ttaaa 435

<210> 17970
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 17970

agcttttagcc tttcatttct tggaagccat ctacatcaaa aaaatcaaag acacaaaatt 60
 agacaggat tttattcaa tagaaagcaa aaaaaaatct gaaatttaaa ctaggcgctt 120
 agcgagatgg attcgttag cagcacttat gaaaattaac tcatacactt agcgcgatcg 180
 aggtgcgttt agcgagttaa cacagaaaac tactctactg cataattggc tcgctaagcc 240
 caattccaaa acagaaaaca atttgcgctt agcgcatagc gtgcccttag cgcgacaaca 300
 atactagaga ataattggct tagcgagcag gctcgataag cccaattcca aaaattacaa 360
 aacag 365

<210> 17971

<211> 440
 <212> DNA
 <213> Glycine max

<400> 17971

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actcagcttg cataggctca ttcaatcact tagtgcacca atagtttttg gatccattcc 60
ttaaagccc gagggagtta tgaaacaaag tattaatatt ttgcttaata ccatatcaaa 120
gagaagaagt aatatgtgcc caagtgaaat gatgattggt tgcaactcta gtcacaacg 180
ttaaagccca ttgcacatct gtagaaacta gtcaccaatc aagttgcctt gttgatattcc 240
aagaccaatg ataaacctga atttgactat attttgatgt gaattttcat gtcatatcca 300
tgcatattga tatattttat tttggcaaaa ctcatgggtg ggtattaatt tgtgaaagac 360
atgtgcttaa gacgctaaat gtggaaaaga actaaaaatc atgaactttt tcacctaatt 420
agaagatcat agtcaagggtg 440
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<210> 17972
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17972

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agcttgtctc gctaagtggg agtccacttt ttgcgcttag cgtgacaatt cgtgcttagc 60
gtgactccct ctatgctaatt tctcgcttag tgactaatt cttgctcaat gcaattccct 120
ctcgggttgg aattgtgctt agtgcgctcc tcgcgattag aaagacatta gttgttatta 180
tggtcaaaat cccaacggtc agaatgtgga gaattgtctt aggaacctcc agacaaaatt 240
taaagataat ccaatgggta acgaatccag gatcacgatt ttacagaaat aggttttggg 300
aaaatctgaa atctcataat ttcaacttag ctgagccaaa ctccacataa ctcaacatcc 360
acattaagaa attcacacat g 381
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<210> 17973
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 17973

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atggatgagt tgcgtaaacg agccaaggga tacatttaga tggaggaaat gtctagattc 60
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aggaataaag atagactagc aggacaaaag tgtgacaagc gagaaggaaa caccaagacc 120
 gacttacaca agtcgaacaa gaagcacaag ccagacaagc attaacctct gttagtcgtc 180
 atttacgact aacttttata ttgaagagca ctatgaaatc tatgtctttt cccaattta 240
 tagttctttt tgtaagttcg tacatatattt tatgtttagt ttaattttta cacagtagat 300
 attcccttca atgtgaatta atgtgttttc aacttcaatt tcagggtgaaa agatgaagaa 360
 taagaagggtt gctttggctg gtgtctcact aagcgaggca tatgcgctta gcgagtaaca 420
 ttcactaagc gag 433

<210> 17974
 <211> 93
 <212> DNA
 <213> Glycine max

<400> 17974

agcttctacc gctgttgact atcaacaggg ggcgaaacga atctgataac ggctcaaccc 60
 ctcaggcact tctatatgta tcgaatatgc gta 93

<210> 17975
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 17975

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 atggcacacc ctctcacctc gtctccttag ccttcggtg tatcagcatg ggggagacat 120
 cacctttact acaccgtctt gaagaccaac catccaggct tcatagatgc gtcacaagca 180
 agctggcata ggagccgcac attatcgcca tgacacagat gctgcgatgg accattatga 240
 aactttatgc agaacgggcg tgcatgcacc tatagtgaca ctcatcatatc tatttttatg 300
 gacatgtcac acggaggctt acgatacatg atcactattc aaggcgacca actggtacaa 360
 aaatatggtg tttatcaatt cgtgctctat gcgagacct 399

<210> 17976
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 17976

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tgtgcttaaa tatgtggggc aatttttggtt tgttttcttg cttgattagg ttggattggg 120
ggtttgtatg ggatggccct atgcctataa tgcattttga aacaatggga catgccacat 180
tgtccccgtt ctcttgttat tgatgcctaa acgcgcgccc accaagtgtt cggtgaaatg 240
cctcaatggc attagcgcgt gacttttgta aggaacaac ccatggggca ttttggtttg 300
cacatatttt ctatttttct gggacgtgca ttcattctcg aataggctat agtgattgcc 360
ccacatata 369

<210> 17977

<211> 420

<212> DNA

<213> Glycine max

<400> 17977

tgtcatttgt gtggagccta ctacatcggc cttcttggga gctatttgaa gcatttttcg 60
tgaatcatga agaacaagtt gaagcattcc aaaactgcaa cactgagtgc aagatctatg 120
agtgaaaaat ctatgtttta gcttgaacct tcataggag agtgacctat ttctaattta 180
tgcttacaaa gcttgaata atcttagata gaagtgtgag attaagttct tgagtgaat 240
ccctcttggt aggtgaaaat ttgtattatg tgactcaaa cacaaatcta tttctctgta 300
aaatttttagc gttggctggc aaagggtgaa cctagtgggt tagctagtct agtcaaggct 360
aagactgaaa tctagtgggg aactgccagg ttgttgaaac ccagtgggtt gctagttag 420

<210> 17978

<211> 364

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17978

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acaaaaagct taaaattcaa gaacatttca tgataacaaa gatgatgaat ctacagaatca 120
aagaatgagt tcaagattga atccagaaca cttcanggtt aaagaagaaa tttgatttca 180
agaatcaaag aatcaagttt caagattcaa gttccaagaa tcaagatcaa gattcaagaa 240

tcaagagaag acttaatcaa gaaaagtatt aaaaagggtt tcaaaaactg agtagcacat 300
gaatTTTTCT caaacctttt acccagagtt ttTactcttg gaatcgatac cagattattg 360
aatc 364

<210> 17979
<211> 425
<212> DNA
<213> Glycine max

<400> 17979

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tacccttaaa acagaaatgg catacaaccc cctccaataa atacaaacat caatgtaaT 120
ttagagcaag cttatgCGca tacttcttca cgaacgttca cttgcacaag acattcttat 180
aactaagaaa aatgcaccca tatacaatca aggcaccttc gttacctaga ttatttacat 240
gtacttccaa ggtgtatttg ttacctacat cacacacatt tcctttgcta aattcacata 300
catgcatact ctaagcactt tggctatcaa aaattgcata cgtgcacatc ttTgtatttc 360
taatacctat acatacaca acttcatgat gaatcttgac tatctacaca ataaggTgct 420
acatt 425

<210> 17980
<211> 356
<212> DNA
<213> Glycine max

<400> 17980

ttcttattcc cgcattccca gtaagccctt cacgtggtaa tcgcgcaaac gcagtggTac 60
tttcttggtc cgcgctggtc tcggggTggc ttggcatatg tcgatgttgc taacactgcc 120
ttcctcccta aaatccacct tgtcctcaag gtggtaggtc ttacacagat cagaccacat 180
ttcccacgaa gtgtcttctg gtggctcacc ttccactgt gtaagcacca ggcgagtggg 240
cggtgttgTc gactggTcaa gtttggagtc tagaaagcac atgggacgtt gaaggggctt 300
ggtttccaaa acctgtaagg gccaaccata atctgtagcc ggtggtggac catgat 356

<210> 17981
<211> 404

<212> DNA
<213> Glycine max

<400> 17981

aatcttccta atgtagcttc tcaacgaggt gagcttagct atgatgtgta actaagctct 60
agcttctcaa ggaagggtgtc tcaatgaagc ttctcaagga agttttctca agaaagcttc 120
taaaggaagc tacctagctc tataaataca accatgtgta acacttattg taactttgat 180
gaatgaaagt cttatgatat acacttcaaa gttccacttc ttacctctt ttattccttc 240
aatttcgtgc tcccccttc tctctttctt ttctccatt aaagcatcct cttcaagctt 300
cttatccaag gcaattcttg gtggggaagc tacttcttcc ttggcttatt ccctagtgga 360
tggtgcctcc cctctgctct tctcctttgc ctccgctgc atct 404

<210> 17982
<211> 373
<212> DNA
<213> Glycine max

<400> 17982

tgcttgatga attctaggta aagactgaaa tcaggacttt gcttcttaga tagaccacaa 60
tctcttactt ctataccctc tagtttctat tccttggtca ttgttattat agtgatttaa 120
atcatccaag tttcacatag gttacaaaat tgatgtaatg catgggagga acaataaaat 180
ataagactaa gaagaaaaca acattgtctt attttttcta tcttcttttt attcactggt 240
gaagttatgt tctggaaatg tcctagaaat attagacagg aactgcaact tattttgtta 300
tttcaaatga tccaaggtag gattgttaag ttggttcacg aatatttggt attaatagga 360
agatctaaac cct 373

<210> 17983
<211> 227
<212> DNA
<213> Glycine max

<400> 17983

ctcatgcttc taacctacgg aatccttttc gggcattggt ggcgctacaa ctttaaaaac 60
cagtgaaga cttcatcgtc catttcgata agcatgcacc attggtgaag ggggaggatg 120
aaccgctcct ggagaaagtg ttgttagag ggcttctcca agagatccac actaaagtcc 180

agctctatga accggaatac ttgatggact ctatggacgt tgcttgt 227

<210> 17984
<211> 266
<212> DNA
<213> Glycine max

<400> 17984

ttgtcatgca tgcttatgat gatcccatat ggttggaaaca ttctctcaaa acagagtaac 60
cctgactggg caccttatga ttttacttac tgagagtgac ctgacatacc catttgtgtgg 120
tgtgttttgt tatgtactct taaacaccct agtgtgggttt tttactgata tgggaccaca 180
ttgcatatag gcttgagttt tataataatt gttgcataat gcacgtgaat tgtttattat 240
gaaatcaatg agtgttgtca tgcctc 266

<210> 17985
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17985

ntgaaagtag agctcgaaga gtcaagagtg gtgaatgaga agttgagggg ggtagtcact 60
agggtcagga aaaaatgtga tgagctgaaa gatatcaaca tgaccacggg ggaagcgta 120
gagtgggaaa taaaaaaaaag gcccgaaagg aagaatggag caggaacaag ttccaagggg 180
ctttgtgggg tagcattaag gagctcaaac ttataaaggc cgagaggggac aaatcaagga 240
tggaagcat ggtgttagag gataaatcaa agagttttca tagatcgaag agaattntga 300
tggaacagtt gagcaaaaca gaagagaata tgttggcaat catcaatgaa tataaagaaa 360
aggtgaacct atccgctagt catgggtaga ggctggaaga tgaacgacac atgtatcggt 420
tctgt 425

<210> 17986
<211> 356
<212> DNA
<213> Glycine max

<400> 17986

tagctttgag ccaaaatcct gactcaccat aaaccttgac ccagggtgag aatgtcaatc 60
 cttaccctcg gaagcaaaaa agaataaac ggaaattttc aatctaaaaa gaatagaagg 120
 aaaatttcca atgaaagcaa aaaaagaaaa gaaggaaaat tccccattca aagagtggga 180
 gaaagctaaa agaaaagaaa ggaaattccc aatcaaagaa tgggagaaag taaaaaagga 240
 agaagaataa ggaaagaaag ctctgatca gggatcgaag gataaacaga agaaatgtgc 300
 tgagaggtct ttagactgga caatatctga accatacaga attggcacca catgaa 356

<210> 17987
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17987

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 ggaaggatct tgaaagccta agtgggccac attgctattc gtaccccccc tttttactaa 120
 atgcaccccc atttattttt ttggtaattc tttttctgta acgttacgaa actttacgaa 180
 tttcgtaacg atacttattt tccttccgca aggttacgaa tccttacgga ttatgtattt 240
 actctttttt ggctttcgaa gaagttacgg aaactcacgg attgogcaaa aacacctctt 300
 ttcgatttcc gccacattac ggaatttcac ggatcgcgca agcctgcttc cttttgatnt 360
 ctgacacgtc tcgggtcttc atttattgtg caacacagga cgccaagtat ct 412

<210> 17988
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 17988

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 aagattttgt tgtgtgaaga tctgcagaga cgagagctca atgcgaaagc cattctaaga 120
 gcttttagatg agtttgtgag tgactgtgag atcctagagg tgaaggagac atcctcacca 180
 cttgtatttt ttcaatcttt caccttgctt ttctctgtgt tgtaaaggag gtttcagac 240
 tatggaaagc taaatcctct attggatctt ccctgtaggt acctgatgta agctccattg 300
 gagcttgtaa gcctaggatc ttcttcatca atggattcct tggcttattg gaagatgaat 360

ggcagcg

367

<210> 17989
 <211> 395
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17989

tctcactaan agggcaagga aggacgccgc aagttatgga tctagtgcag cccacaagc 60
 agagattgag tttgacggac accatttttg aagtgaggag catcagcgcc gtttcgaagc 120
 aatcaagggt tggctcttttc tcaaagagag acgggtcaaa gtccaactaa gggaggggga 180
 atacataaaa ttccacgagg aggtttcctg gaggcaatgg actcaactga cagagcctat 240
 ggctaaatat gaccagaga tagtcatgga attctatgca aatgcctggc ccaccgaaga 300
 aggagtcatg gataagcgct cctgggtgtg gggccaatgg atcccctatg atgaagatgc 360
 tatcaaccag gtcttggggc atccattggt tctag 395

<210> 17990
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17990

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 gctggaaaga attccagatg ttattggcat caatgatgct ccaagtgttg gtgaagataa 120
 tcctgaagtt tggcatgttc aggttaattag ttatctaata atgctgaata aatattttga 180
 ttttctagaa gcaattattt tctcatttac tctaaaatga aattatcgat tatgtctact 240
 ttggaatgta gatatttcgt tcaattgatt caaattccgt taaggggttt ccaaaggatc 300
 caaaagatgc aacgagcaag gtgaatgaaa agccttgtgt ttcaattntt gtttgtcaga 360
 cttggtttaa cctatcaaac c 381

<210> 17991
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 17991

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cattgtatat ctgtttaatg gtcgtacaac tattggcatt gtgttccttc agagtttagta 120
gaatgtttct tggcttcacc atggacttcg tcatatcaac aataagtgtt ttttcagctt 180
tagtcaatcg ctccgcatat ggatgtccaa ctaatgagtt gaccaattca tgattatgta 240
ctgcacaaat caacttcacc atccagcctt ctctccaac cactggcttg caacaaagct 300
tgaagggaca cccacatttc ctagtcctag tgtctcttct gataagttat ttttctctac 360
acctatactc gccactactt tcacagctaa ttaacacaaa caaagtcctt tctctactac 420
ctgtgtttgt gtct 434

<210> 17992

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17992

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agttcacaaac atccacattc caaatttcat tagaaaatta tgagtagtat tgtcttctct 120
gcactcaagg gtagtgccgt aaaagggttac tgacatgtga aggaacgcan aactagtaaa 180
acataattct ctgccttcaa taaggaaccg tgaattgggt catgcatacc aattcacatg 240
acatttttaa accggtttgg taaaatttag tgaattcgtg aaagcaatga atcaggaaac 300
atcacgagtt tgactttgga actcttaaag aacataaaca gctaagcttg ttagttgtta 360
cagagagaaa gagaggattt 380

<210> 17993

<211> 423

<212> DNA

<213> Glycine max

<400> 17993

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gatccattac cttacatctt aagatttttag gggaaatcagt cttcacact gaacttatca 120

ttaaaaattg ttgtaattgg gacttggttt catttttcatt tgataacttt tatttacata 180
 tgggtgtgctt gatgtctaata tcttggtaca tacattttga acatgtttta gaacttagac 240
 accttgtgtt tcaagttatt caatacctta tttaaaaatg attttttttg gcttcttata 300
 ggtttgttcc atgtatccaa attgattggt tgtgacattg aagatctcaa gttgatacta 360
 tcaactcgca aaatgaaagt tggtaatgat aatattgtcc aaaagttgac gctatcacag 420
 gta 423

<210> 17994
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 17994
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 gcacaacaag ttttctctt ccacaatgcg cgcataaacc caccatcccc tgatgccac 120
 ctccaactga gctcacgtac tcccacgtat cccatatact cgattctctc aacaccgggt 180
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattga aacagcataa 240
 gctatcacag acaagcaaaa cagagcaaag gcagaaaact ctgctcaaca catcaacca 300
 tatcacagct tttctcactt aaagaccaca gtaacaattc ctttgatcca attcgctaac 360
 cgttggatcg 370

<210> 17995
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 17995
 agccgggtttc ataaatatta tatgtaataa cctcctgggc tcccgatattt gtttacctac 60
 accagggtgta gggctctggg gacatgacac gatatacgcc tttataggga gtgcttactt 120
 tacaagaca cccaatagat gtgccacatg atgatgtggg actatgttac agtcactacg 180
 aggaccttgg acacgatagg ccctgctgtc catgaatcca cagtttctca tgaacgcct 240
 tatgactttt gggatcatg 259

<210> 17996

<211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17996

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agcttgtaaa aacttaagtc tgaaatttct ctatagataa ggaacaaaaa tggtcagacc 60
agaccaacat cttttcacaa tacagtgttt ctgatatttt tgactcagaa atttccattc 120
atctcattgg aaaagtccaa cccacatttc actgtatatt agattcaact tcttgatata 180
atgtgctaac gaagcacaag atttagactc atgatattga gttcgggata ctcagaaatt 240
taatctacaa tgggcattnt gttgaataaa aagcaggcaa aaattaaaat gaacaaaatc 300
atgccaataa taactataga acattagaca aactgacaa acttagtcgc attagccact 360
aattgaataa cagagcttag 380
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<210> 17997
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 17997

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tcttgacgac ctatccgcca actgttttgt gagctgtccc acttggacct ccagattctt 60
tatggcagac tctgtgctct tctgggttaga catagagacc tgcataaatt gaactggagt 120
cttttccatc ttcgtggtgc gatcatagag actacgtcct tgttggttgcg accttatgga 180
tgatcccccc tgggtctctat tgaattgatt cccaagatgg ttcttccatt gtgcctgttg 240
taggttgcac tgctgtccat gctggaatcc agacaatcca cctgcattaa aattgtttct 300
aagctgggtc cccgtgtaat tgacttcatg tgtgacttgt tcttcattag ggatacaata 360
tccagatgca tgagctccac cacatagtgt acatcctgca acctgcgtaa cagaagaatg 420
tgatgtatg 429
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<210> 17998
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 17998

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agctttctttt ggaccttgaa caggcaacta actcctcttt caaaaccatg ctatgtgctc 60
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gcgactggtc cttttcttcc ttctgcaact tgagttcact attgctaccc catagagctc 120
 cgcgaaattt gttccggcca tactcttcc tgcgagccct cttgggtctct tgttcaaggg 180
 ctcttgcgcg aactgcattc tcttcccgta acccggcaca ctcttccga acgtgtgtag 240
 cggccaactt gaacttctcc ttggcaagtt ttgcctttcc taactcgctt ttgagagctt 300
 ggacttcttc gtcctcttcc ggtgcttcaa aactctcttt gctgacgact ttttaacttg 360
 cgag 364

<210> 17999
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 17999

aacttatcac actgagctcc gattcagtct tacaatatat tgagaccctc gaaattaaac 60
 atcggaagct ctcgagaaat tcaaatggtc ataacgtttc acacgaaggt cagattcagg 120
 cacataatat gtcgagatgc tcggaattca accacggaag ctctcaagaa attcaaattg 180
 tcataacttt tcacacggat gttcgattcg ggcataataat atgtcgcgat gctcgggaatt 240
 gaaccacgaa agctctcgag aaattcaaat ggtcataact tttcacacgg atgtccgatt 300
 cgggcgcata atatgtcgag atactcgaca tagaacaacg aaagctctcg agaaattcaa 360
 atgggcataa catttcacac ggatgtcaga ttcggcacat aatatgt 407

<210> 18000
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 18000

agcttgtaga atggctagac atgatacatg tcacggcttg gtttggttca aggataaaag 60
 ggggtgcccc cattatttcc atgacacaaa tgcaaaaaat gatgatttgg aaactttatg 120
 caaaactggc catgcatgcg cctatgcaga cgctcaagtg tcagattttt atggatcatgt 180
 gacgctaggg ctcatgattc atttctctta ttttaaatac acccaatgtt tccaaaatat 240
 gttcttttat caatttgtgc attcatccga gtccatttct ggcgtccggg gaaattccac 300
 agtattcacc cttcaagtgt agacacattt ttttcataaa ctagttatga tcaatga 357

<210> 18001
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18001

ngtgtaaatt actcggaatt ggtaactaca ttctttatgc tgagagttct actgaatttt 60
 gtcgaccttc ggaccagact tataaaaata gaaccaagcg atttggatta gagaaaaaaa 120
 ttacaaaaat cacacaagtt ggatgaaaaa tcacagtcca ggaaaataac agagaaaagg 180
 aagtgcgctt gttgttttag ctcataattt tttctataat tggagcctac tttataccac 240
 tcctagttct gaaacttcaa ttgataataa ttatgaaaac aagtgcccaa aatagagggtg 300
 tcttgagtct ttatttcgat cttctttgat agttgttcta ctctactcta tagcctttct 360

<210> 18002
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18002

tgcttataag aacaaaattg cctcaatcat ttccaaatat gcatgtgaat taagacgcat 60
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaattg 120
 attatgatga tggatggctc anattctcac aaaggtaaaa tcatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240
 aacttttatt ttcaaaacaa ttaccattt cttgaacata tcctataatt caaagaaaaa 300
 catgcaaagt cgtacgtgca cacaaaattg acccanaata ttaaactata aatccgacga 360
 aactaataac atta 374

<210> 18003
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 18003

catatccaag gctgatggat cgggttaaac tcctttcttc atggcttatt cgctactgga 60

cggcgcctcc tacatacctc ttctgattag acttccggtg catctccatg gtggaaaaat 120
atcattaagg gtctcattg aagctcaaag atccgacctc catagaagcc ctacaagcaa 180
gttcccatcg agctctctat agcatcactg gcctaatacta cttaaact gtaatccaaa 240
gcccttacgg agtagatagc atcatgcgca ttgactcaag tgcaagcaca aaacttatga 300
gccatgaccc tgcaataggt ctattgatcc taaaaatagc catatcaatg tgcac 356

<210> 18004
<211> 371
<212> DNA
<213> Glycine max

<400> 18004
agctttaacc tcacgtctc tcacagtctt tagatttggg agccaatcca atccttgctt 60
tcggactctc agccacttat gatagccggc gatgaaccca ttactgcttc ccctaagctc 120
tctgtccttt cttcacgccg catcccatgc cttgcgaact ccttggagta ccctcgcgtt 180
atggtcactg aaacctcgtg cgatgaaagg cgtgatgctt tcgtctaata gcgctcctct 240
catggggcag ccaagctgtc ttatggcgag gacgggatta tagttaatac aaccgcttgt 300
tcccatcaag ggaacatttg gacatccttc gcatgaagat ggaatcttga ttcttccggt 360
cttctagcga g 371

<210> 18005
<211> 373
<212> DNA
<213> Glycine max

<400> 18005
acaacatcca agcaacacaa cattcacaca gttaagcta tcacagccca gcaaaacaaa 60
gcagaggcag acaactctgt caaacacca accaaaaatg acagctggac cactcaaag 120
acccagtaa caagtccttc gatccaattt gttaaccgcc ggatcgactc caaaagatta 180
ctggaagtct atagagcata agcctacatt gtgaccgaag ggatctacta gcaaacatcc 240
ataactcatt ttacattact ctttccacaa ccagcaaaat acatggattt gtctgcactt 300
gcgcagaagt ctgctgcaca attgtacagc ggaatctgca caaagagtat atttcgaaaa 360
ccacactttc cct 373

<210> 18006
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18006

agcttgccat gatgcttgga atagtttatc ctttgaagat aaccataacc atgatctgat 60
 ttttaccaac tccatcacct tttcatggcc tttactgcca ttattaaaga taatggagtt 120
 tctatgaagc caaataatcc aactcattgt gcaccacaca acttcccatc tttgatttgc 180
 aattgatcca actctcagta tatagtgcga tagatagtga tcctgcggtt ggttatgttg 240
 agtcccatg actccaacc atctaaaaca caaagaccac acttcctgtg aaaaagtgc 300
 accgacgaag agatgttgta cactntccaa atgctgagag cacaaggcgc acaaatagtt 360
 gttgtttggt cg 372

<210> 18007
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18007

tgagatgagg aagtgttgaa gggtgaaact tccttctttt attgttgacc acagagtgg 60
 acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcagggtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa caagaccaca 240
 aagcaaggag gcttgtggtg gctggccagc tgtgaaactt gattgatatg tgagatatgg 300
 tctctggtaa tcgattacca aggggtgggta atcgattaca aggcttaaaa atgaagacag 360
 ggggctaaga tggtctctgg taatcgatta ccaggggatg taatcgatta 410

<210> 18008
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18008

agctttaagt tgcaattgtg ttccatgatt tcaacataat tgtaaataata catcttaatg 60
 ggtcctcttc cctcttccat tgcttcatca ttttaagtaa atttggtgtt cttctagcct 120
 tcaaaaatcg aatatggttt aatcttactc gcctcatttt gaaagtatta tcaaacctat 180
 cttgttcaaa aaagtgtgtc aacatttacc ttgtataagg ctccgacctg cacgctgcat 240
 tgattgtgat ggttctatta aattaacttt ntctaaagat tttggccaaa cttcttgcag 300
 tgcctacat catcagattt ganaggcaat anaaaagttc aaaaacatta ataaaattat 360
 aatatcaaag tt 372

<210> 18009
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18009

aacatctcca gtgttaattt tgcccgacct taagagacca tttgaagtgt attgtgatgc 60
 aagcgggcaa ggcttggggg gtgtgttaat gcaagaggga agaatagtgg cttatgcttc 120
 acgccaattg cgtcctcgtg aagttaacta tccgacctat gatttgggaac tagcagctat 180
 ggtctttgcc ttaaagattt ggaggcatta tttataccgt actgggtttt aagttttcag 240
 tgatcacaag agtctcaa atctgtttga tcagaacgaa ctcaatatga ggcaatgaag 300
 atggatggag ttcttcaagg attatgattn tgggtctttcc taccatcc 348

<210> 18010
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18010

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 cgacaaatgc aaaacttccc tttctatgac aaacctatgg taattgttag attacactta 120
 tctagtattt attattacac cgaaacttat gattctgatt catatgtaat tacctaattg 180
 taatcaactt atagtgtgtg tgataatttc tttacagttc tgttcataac tctattatat 240
 cttgtaccaa actttnggaa ccatttctag taaccaatgt tatcttactg ttcttttccc 300

cttttatctt gtatgttcta gattctctta cttggctact agggatttat gttcgtgccc 360
aaaaaatac 369

<210> 18011
<211> 414
<212> DNA
<213> Glycine max

<400> 18011

tgtgaaggaa taccttgaag ataattccaa accattagta attgaccgta actttgtgat 60
tgatgcgcta ccttcgggaa aaatcaatga ccttcgcaaa aatataaagc tggtaatggg 120
cgttgggttt gcaaaggagt gctacgaggt gtactgtaac tggaggaggg aaagcttaaa 180
ggagtgccta ataaatttat taggcttgcc agagattaat gtggaggaga aaagtagatt 240
gttgaattt gaaaattaca ttcttagaag acgtattgag gctatccagg tcgctcttgg 300
aacactaatt ccagtgagc gacgactctg tgatagcgtc ttccaggggt tctcttatgt 360
ggctgatctt tgtttcactg atatttgtcg gggaacctca attcaattgc tgaa 414

<210> 18012
<211> 370
<212> DNA
<213> Glycine max

<400> 18012

ttcttggagg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
gcaagacaat tctccacatc cacaaatcac gtataaaccc accatccctt gttgccacc 120
tccaactgag ctacgtact cccacgtagc ccttatcctt ggtcctctca acgcagggtc 180
cccatcaatc ctccaagct tccacaacat ccaagaaatt caacatccaa tcatcacaaa 240
ctgacaaaac caagcaaac agggcaaagg cagaaaactc tgcccaaac tcaaaccaaa 300
aatcacagct tgttctcact taaagacccc agtaacattt ccttctttgc aattcggtca 360
ccgttggatc 370

<210> 18013
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18013

tatccttatg gcttgccctc ggacttcaact ccctgtgcc ctctggaaga ttttaagccaa 60
gccctactt ctgaggggca actcccgect tatgacgact atcccgggca agacgatgag 120
gaaggagata cccatctcgg cccctgtctc cacctcaaag atccgtcccc acatgaacta 180
ccccaaccga acatagtctg ccatatcccg gcctcaccca caccgtaaa agaattctgtt 240
cccttcgctg aagataaggg aaagatagag gcgcttgaag agagggttaag agcagtcgtg 300
ggccttggca attaccatt cttagattta gcggatttat gtctcgtgcc caatatcgtc 360
attcctccca agttcanagt gccagacttt gatacgtaca aagggacgac atg 413

<210> 18014
<211> 374
<212> DNA
<213> Glycine max

<400> 18014

tatcttatga tgattcattc tattactcct tctcacagtg gtgcctcaac accgaagctt 60
gcatattagg tgtataattt gtagcatgga gagaggtggg aaagacgaat aactgtaagg 120
tcattgtatg gttttttttt tgggtggatac aggggattct agtatacata cagactacat 180
acatatatag tacatatggt acattgatag tgggtctttc attgcttttg ttgccttttg 240
gtatagtttc tttggctata accaatgtta tatttgcaag atgtacttga gtacttcttg 300
gttagtatac tgtgtacttg ggtacttcat gtgcaatgtt ttctctttca gaataattta 360
tagtcaacaa gatt 374

<210> 18015
<211> 424
<212> DNA
<213> Glycine max

<400> 18015

tatagcccca agaccattaa acatagccaa caatgtagaa ctaatcgttt ttgaatctga 60
ctttctttca tatggcctat aaggtcacgc ctctactggc aacaacaaat ttgcaagtgt 120
ttaatgcttg gctttttacc aatccaaagt tcataagggg tttcgttaac tgctttactt 180

gacaccctat taaggatgta aagtgtgggc tttaatgctt atccctaaag tgactctgac 240
aaagaagaat gactaatcat actcctcatc atattcttaa gtgcaaaagt tttcccgaca 300
tagtgtattg cggaacaatt tcagactctt tgaggaaaag tgcaaaaggc cccagacggt 360
attctattaa tccaccatat ctcccatagt actcaccacc acgatcagat gtggtagcct 420
taat 424

<210> 18016
<211> 381
<212> DNA
<213> Glycine max

<400> 18016

tgcttgcctt tcttgcacga tctgcactaa gacaagaggg gagggaaata ataactactg 60
agtttaaaca gcatcttcta accccaaaac caaaagaagt ttcacattgt gcttcttttt 120
atctgccata ttagttgcat tcaacttgca aataagagag aaattacaag tctgcaaaca 180
tactcatact cctctggcat gtttttcttg atttctgcgt tatgtcatac catcacacac 240
ccctgcgttt atctcatcaa gtgcacgcca ttgtatctaa cttatagata gtaagtcaaa 300
atgtgtacat ttgtcaacct atttctcgtg aaataaatag catgactgta cacaaccata 360
aacttaagta tgacactaac c 381

<210> 18017
<211> 433
<212> DNA
<213> Glycine max

<400> 18017

tagacgctta gcccttaatg caacctatat tattttttta acatcatact aactaaacaa 60
agaaccaaca atcattaaca acaactaacg taagtaatca aaataaaaact ttctaagtcc 120
tctaccctag ggttcaaaag cgaaaatcaa caagagaggg aaaaaagata acttacttgg 180
aattgcaaga gtagagtgga caatgaaagg cacgtagagt gatgaatagt gcaaatagaa 240
ggtggaatga gatgcagtta tatgaatgaa aatgtaactg cctaaggcag ttatgatctt 300
cttttgcagt ttcgatttgc tcgctaagcg cgagtgtctc gctaagcgag aactctgtga 360
cattagaatt ttcagaatcg gaattcatgc gcttagtgag atagactcgc ttagcccaat 420

tctaaaatat gtg 433

<210> 18018
<211> 342
<212> DNA
<213> Glycine max

<400> 18018

ttcttacgaa agttcttctg attctgttat acatttttta ctttatggca tgagatgaag 60
tgcaaagatt ggacctcttg ctagttgtta ttaatgaata cttaaacact tatgcgtgag 120
ggaaacaatg gtcatgagac tgtgggttaa gcttctttcc ttgatatcta tcttatgcct 180
aacttcacat aatcggtcag gctacatttt attcttttct ttggataact acatgccttg 240
taaaagagaa gtgatgaggt gcattacttc attctcttat catgcaatca tgaactcttg 300
ttgcatacac ctttgtacat agtcactgca tgttattgtc ac 342

<210> 18019
<211> 511
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18019

tactcgctct angatgcctg cacggaaggc gatgagatga atgtacgcgt tacannncac 60
cccccaagac aggttgaact ggaacgctga aacatggaaa cccacggcgc tggaccacaa 120
ggagaaaagc gtgtcaagga tgaccctttg accagcagga aataggctct aagaacatga 180
gactccaact taacaccaag gacgcggccc ccttttaagc aagacataca catcccgcta 240
cggaatatcc cgggggaatg ctgttccttc ttgatccaag ctacccgaac atagtctgcc 300
atacaccaga aagcaccac gacagaaaaa taagcgagtc acttcgtgga taaactcgga 360
acacaaccag cgcaacgaag aacgtgccaa gcgtatgggt gacggataaa ttctcgcttc 420
aaatgaaaca aaagccagcg ccgtaacaat tgggcaagac taccagccc cataagccag 480
aagtcaaag actaactgcc tgcacatcta g 511

<210> 18020
<211> 379
<212> DNA
<213> Glycine max

<400> 18020

tgcttggtta gttatgtctc gtatcggett aatcaattac agtcttctcg taatctatta 60
catagttggt ctgagacaat gactgattta ttcataagtc tctgctttaa tcgattacca 120
tggtatataa tcgattactt ctctttcttt aagtacttca aaagtgaaca agaacactct 180
aatcgattac gctgaatata taattgatta cattgttctt gtgttggttc caagtgtttg 240
gaagaacact ttaatcaatt aaaaagataa tctattcgat tgcttcattg aattaatcaa 300
ttaccttata gatttaatcg attataggca gttataactg acttctctat aaataacttg 360
cctgtgttct cttcataat 379

<210> 18021

<211> 219

<212> DNA

<213> Glycine max

<400> 18021

gccctactat aaaaagtgac caaaaaacaa gcatacttc caaacgtact aagggtgctc 60
ctactcacgc ttttctaacg tcttgagcta gactcctgat gactcgccgg tcacagacct 120
agtacgttgc ttacatttgg ctttgatgg ggacacctat tggtcgtcca tgtgtcatat 180
gcaactctct aacctttaca tggatgatct gatgtgaac 219

<210> 18022

<211> 292

<212> DNA

<213> Glycine max

<400> 18022

tgcttgcttt tgattaatcc ttagttctgt aacaagcttt gaacaatata cttggccttc 60
atttaactgt ctttgcgctt ggcggacacg ctcaacaaag tactttcgac acctactgta 120
cgttgatttg accaatgctg ttatgggaat gtttcgacaa tacttcaaaa ccttattgat 180
acattctgaa aggttggttg tgatgtggcc atatcgacgt ccttctctat cataagccat 240
cgtccattgt tcctttgaaa ttctatcaac ccatgtgggt atggatggac tc 292

<210> 18023

<211> 662

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18023

acaccctgcg ctctcacntt ctgcatcggg acgcgaagtc tcttagttta tgccctgtttn 60
 cggctcaacn cccccccncc cagaggagag ttganacata gaatacgcaa gagacactat 120
 anaacactac aagcatagtg acagcgctac tataagtgtt agacagcgga cgacttgcaa 180
 ctctctgtga ctgattgatg accttacatc gttatgaggc agatcatatt gaatctcgat 240
 acataaacta ggcgactgtg atgtcctaga gttgttgctt gcaaagatac gatagaaatg 300
 ttcggcgcta tagctcgccg tgcagcatta gctggcactc ttgcaatgct acactctaaa 360
 agacatacta cagtgtgata tactattaat caacatagac tcttagctga actagagcat 420
 gaacagattc taaacatacg agaactgaga aataaaaaga attgacataa tatacgacga 480
 gaccattaaa caccatttga tagatcaagc attatatact gtatatgtag agcacacgag 540
 agatgccatt tgtctctaca ttcgcgggtca ctcataggat gctattgaat cacaatcaca 600
 atctattgac tgatcgattg acgacgaaa tactgaatac gagaagtgcc ttactgaagg 660
 cg 662

<210> 18024
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 18024

tgcttgccct tcttgacga tctgtactag gaccagaggg gatgggagaa gaaaatgctg 60
 ggtgggcca tatttaagga gagtgagccg gtggtacgga agtcaactca tgtgtggaaa 120
 ccgagagtca ttggccaagc ttgtaaaatt acaaacggat ccatgcatga ccaaatgggt 180
 ggcgagctga agtatgaggc aaagggtgat gatatgaagc gtctaagtaa agctatgggc 240
 ggcgttgtga tacatttcgg ccaatcttat cttatacaag aacatcttgc tatgcaaggg 300
 gtgtctacaa ctttagttac tcccttagga gctaacatgg ttctcttaga atgtagtggt 360
 gatga 365

<210> 18025

[illegible]

taccagaaca	gcccatgcg	gcaccgagtt	ttcattaaaa	atgagtaatg	catcacaaaa	60
ttaactagaa	tttttattaa	aaaaaatcaa	atactaccgc	gtgagatgaa	caattttataa	120
aattgacaaa	aataatgatg	aaactctgaa	ttttattctt	ctgtggacca	ctttattttga	180
ttttgagagt	atgctctgcc	aaactcatct	cattcgattt	tactaataga	ctaatatcta	240
ttttgttatt	agatactttg	gggatgaaaa	ataaacaaat	aaacacagtg	ctactgctac	300
cactacatac	gagaaaaagg	aatgatataa	aqcggaaatcc	gagaga		346

<400> 18026

cttcttctaa	ccaaatgggc	ttaccttgga	ttaattcctt	tgatagccct	ttttaacctt	60
gtttcccttt	ccttggtttg	aagctcacta	caagccttaa	gtgaaaaacc	atgatattac	120
catatcctta	acgaattttg	gagctttgga	attggtttgg	ggaataagtg	tggggggggt	180
ttgtttcatt	ggacaacttg	tttggtggct	atgcttcatg	atgtattttg	ggccatactt	240
gatgtacatt	gcatattggg	taaatgttgg	acatgctgaa	tgaaatgttg	gttctcacag	300
gcaaaaaaaa	aaaaa					315

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<223>      unsure at all n locations
<400>      18027
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7554

tcacgaacta acacagccaa taaaacaggg caaaggcaaa aaactctgcc aaaacacaaa 300
ccaatatcac agttttttcac attcaaatac cccagtagca tgctcttcat tcatattcgt 360
taaccgttgg atcgac 376

<210> 18028
<211> 370
<212> DNA
<213> Glycine max

<400> 18028

ttctttttct ttatgatttt gatctgaagc tattgtatgg cattcacaag gcttcatctt 60
ctggcgccat gaagcttgaa cccaaagctt ttggtggcaa atttcctgct caggttagtc 120
tctttcattt tctgtcttaa ttaaattatc ctgatcctgt cgttgattaa tatgctgatg 180
gctcatggct aacaccttca ggtgcggttc aaaattgctt ctgatttgtt tccattaccc 240
gaaagcattt tcaaaaaagc catcaaggat aattataatg aaaagcacia gttcagaaca 300
gaacttaccg ttagacaagt aagaattaaa tgtaacctct ggtggcctgt ctgtctgttt 360
ctatcattct 370

<210> 18029
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18029

ctatanagac tcagcttgta aaccttagag gtgatcttag ttgaagatt ttaccctttt 60
gggtcaaaac actctaaata ttagtccaat taatcaacat gacgaagcac agtttcttca 120
caaataatcc aaagctcttt atgaaataaa aaaaaatta cagctagaaa taaactattg 180
aaattgcttt gcaccttgat ccagacaaca aggccattgg attcactgcc aataaatttc 240
agtccataaa atgctttctg actgcactgc tgtctaagct ctcaagccac caacaccgat 300
tcagaccac cttgagctcc tgtgagagct atgtaattat tgcttacaat gaatattact 360
caacatgtat tttattattg gtcaaaatga atatatcttc ataaacgata tgcacatcaa 420
tctagcatat 430

<210> 18030
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 18030

tttcttgtga gaatagtaaa aaaatcacgg agatttattt ttaaactt ggagaattaa 60
 aaacaagaac ggattaaaat tacctgggtg tgttcctctt tgtattacca tcctctagac 120
 agcctgttga aaattttaga ggcttgtatt tacgtatttt gctttctctc accacaagtt 180
 ccgtaatcac cctaaaagta agatattgct cctttcttaa gaggtaaagt ccattctttc 240
 tcattttcta ctaatttatc tctacagaga aagcatttta tgctttgaag agaatgcaac 300
 caaagacaag aaagattggt gatcgctgtg cctcaaatg tccgaagata aggtattgaa 360
 agattact 368

<210> 18031
 <211> 52
 <212> DNA
 <213> Glycine max

<400> 18031

caagacacgg cgcggaaga gagaaaccca agtcccgaca cgagaaggca ca 52

<210> 18032
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 18032

ctaacattga atttagagcg tctcggtata ttatttgtct ctatcagaca tgcgagtgtg 60
 aggtgattgg cgatagaatg tcctcggagg ttcagaagtg aatttcagc gtggacatat 120
 attacaggac tcaatcaaac atccgggcga gaagttattg ctgtagatt agccttcagc 180
 ttcacaattc ttttgcgac gatctacata ttacgggact gtatcagaca tctgcgtaaa 240
 aagtgggtgt ggtttgaat ttgtcgaaag cttagacatt atttttgcac gacttcgcac 300
 attgatgatt agaattgggc catacaggta aaagggtatg gtcggttgaa tat 353

<210> 18033

<211> 372
 <212> DNA
 <213> Glycine max

<400> 18033

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ggtgtagcgc tgcgatctac taatatatgg aactttccat tgctttgcct gagaataaca 60
attggttgac cacaacagcg ctgggggscgg caacggacaa tggactttca aataaacatg 120
ttggacatga acaaacatta tatcatgtgc tgaccgcgcc aaacgaacca gcgaagacat 180
tgcataattg atacactaac tatattccat gtacctgaac aaaatgattt ccaaacacgt 240
gaccgacaca tatgatgcgg tggccataac agtcacgtgg tggttgacta ctaagaggga 300
aaaatgacat gctttgttgc tgagacaact atacaaggat cactctttac cgggagcaat 360
cacatatccc at 372

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<210> 18034
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 18034

```

tttcttgaat aacctcggga tattgaagaa aacttgagca aaatgaagaa aatttggaag 60
tgtggtgttt agcatcaa at aagatgaaaa accaaatttg ttgttatctt tggttggaag 120
agagaatgtg actagaatta acctatatat ggtaaaaaaa agtgtagtac gttaataaag 180
attataaata tcttatttat tttaattata aatctttggt attatccact taagttacat 240
tattagataa atagtataaa ataataat tcatgttaa ataaagggtt gataaattgg 300
gtctcccatg gtataattat aagttgactt aagtatat tt aaaataaaat tatatcacca 360
gtttatccta 370

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<210> 18035
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18035

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taaagttggt aaccttgct aactccatat gttagtttgt cnggcccatg gaaataacca 60
caacatgcat aagttttagt caaatat ttt agctgggtga aaaggtaatg aaatggaaga 120

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aaagcacgag aacatacctt gaagtaacag tcccaaaagg aaaagcatag tgtcctcgat 180
atgactttct ttatggcttt tctcttctt cgtggcggtg gaagacactg tgtgatgggg 240
ggttttgttt tcaagagatt gcggttgaag gagagggcga cgtaagaacg aaacgacggc 300
gtaagactac ggttgaagga gagggggcga caacggacga gagggcgacg tatgaatgaa 360
agaacctttg tgggctatgt taaaaagtaa aaagatatac aaagacggtc tttc 414

<210> 18036
<211> 380
<212> DNA
<213> Glycine max

<400> 18036

tgcttttcaa agatgtactt aaccgggtcc atccttgata tcaaccaggt ggtatggctc 60
agcatgtatt gtcttaggcg gtgggacgcc cagactaaag cacaacacgt tctttcgagt 120
agggagtaat tcatttcacg ggccgtgaac ttcttactca agttgtagac agcgcgctct 180
ctcttcccg actcatcatg ttgccccagc atacatccca tcgactcgtc caaaatcgtc 240
atatacaaga tgagaggcct tccgggcact ggcggcataa gcacaggagg gttcatgaga 300
tactgtttga tcttccaaa cgcttcttga caatcctcgt tccagcaaac ggtttgggtc 360
ttgcgtaaga gtttgaacag 380

<210> 18037
<211> 428
<212> DNA
<213> Glycine max

<400> 18037

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tttccccctc ttccagaatc acttgggtct tcagaaaagt gtttaaagta tcttcatcaa 120
atctgatcag atgacctctg accctcacct gcttaagtga cttgtcttct gggatcataga 180
ggttggcata aaattccttc actatggcaa catcaatggt gccttcatca aaattagtca 240
attcttcac ccatttcctt ctctcgagtt cctctttgaa atcatcaaac tcagtgtaat 300
atactaccac attcctctct ggaagcagtt tcttaggcac aattatatca gtgtacctct 360
cccaagcttc ttgagaatga aacctagatc tgtcatatct tgcttgggta gaggaagaag 420

cagaagac

428

<210> 18038
<211> 379
<212> DNA
<213> Glycine max

<400> 18038

ttcttcatca ttcaatttcg agcgtctaga tatattacag gactcaatca aacatccgag 60
taaaatgtta ctgtcgttta aatatgctta gctctccagc tttaaatttc gagcgtctcg 120
atatatgacg ggactatatc agacatccga gtaaaaagtt attgtcattt gaatttgctt 180
agagattcaa cattcatctt cgagtgtctc gttatattac gggactcaat tatacattcg 240
agtaaaaagt tattgtcgtc tgaattttct cagagcttca acaatcaatt tcgagcgtct 300
cgatatatta cgggactcaa tcaggcatcc gagtaaaaag ttattgtcgt ttgaattggc 360
tcagagcttc aacattcaa 379

<210> 18039
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18039

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ggcttgagaa gtgaaattta gaatgagga aatttgaagc aaactctcac ctcacacaag 120
tccataacct caatctaaac ttgctcaaac tgaatttaca cctaaaattc caccgaatca 180
aaatttgact cttcaacacc caattttgcc ctagaaatgg ctctttattc actttgatca 240
tttgtttttc tctctagcac aggccaaact ttctcccaag tcctaaatga catttcaagc 300
taatattaac nnnngagaat cttcatatac cacagagttc anaentnncc nnnennccct 360
caaagcctca ctctttttgc actcataaca tcacattctc actttctaac cctacgttaa 420
ctctaccatt cat 433

<210> 18040
<211> 378
<212> DNA

<213> Glycine max

<400> 18040

tgcttgccat ggtggtggca gacctcgagg ctcaactaaa ggagtcgaag tccaggctgg 60
aggagtctga gctgcggtctg ttcattggaga tagagggttaa taggaagctt gaagaggagc 120
tgctgatgta caagaaggag actgtggaac agcatgaaaa gggctttcac aaggctcgta 180
ggtaggtcgg gttctttgtc aaggccctta acttgggtct ttttgaccct ttcaaggaca 240
tgaaggacgg tgttctgctt gacgaggaag atattgctgc tgaggatgac gctggtgacg 300
agcacagcga tgattgcaat gtttacgttg ccttttcgtt atttccttct ttgttgattt 360
tggctaccat ggctatgt 378

<210> 18041

<211> 328

<212> DNA

<213> Glycine max

<400> 18041

gatgatgaat cacgttgatg caagtcgtct tgatgatggt atagatgttg acaaacaggc 60
cacagaatga ttacaagatt ctgctcccat gttcaggatc aagatgattt tcacgtttcg 120
tgatgggaaa tcaggacgat tcccgactca ggagaagttt gatctcaaga ttcaacagag 180
ggacccttct atgattctcg ataagagatc tagacgactt cgcaagggaa gtagtgaact 240
gattgttcag aggtctagca taccacagtt tgcggttgaa aggaatgtgt ctcataatat 300
tctaacttac ccgagattct actctctg 328

<210> 18042

<211> 380

<212> DNA

<213> Glycine max

<400> 18042

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gtggtacctg gagatatgtc acgggggtca ggagatcttg gggacgtcag gtgggggtgct 120
attgccccaa accaagcttg accaatcccg acccaacccg ggcatagtca gccagtgaga 180
acctgtgatg tacctaaaca tgcgaggtcc tgacagtcaa cagataaaaag gaacaaagac 240

cacaaagcaa ggaggcttgt gtggtggctg gccagctgtg gactttgatt gatatatggg 300
 atatggcctc tggtaatcga ttaccaaggg tgggtaatcg attacaacgc ttataaatga 360
 agacaagaga ctaagatggt 380

<210> 18043
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 18043

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 ctgtggccac tatgtggtct aaacatttga cggatacatg cgaggctctg ttggccgtga 120
 cgttgttgat tatgccccta aaacactcca tacatatgtc ttgagctatg tgggcttcgc 180
 tcaaaatctt gaccaataac gctcgatgag gctcaaagtt cataagcagt cccaacagat 240
 agatcctagc tggggtttta tttatttgtt taatcacctt gaactcgctc tgctggatga 300
 ttctcacgaa ctcggttget acatctgagg atattccctt tttgctgaag atgacctcta 360
 tcttggaaaa ccttccaacc gggacctcgt cattagaaat caagcccgcc ttatcactct 420
 cttccacgcc cgcc 434

<210> 18044
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 18044

tgctttgata aatgccccaa ctccctctcc atttctgatt tcaggcttaa ataggtggtc 60
 tcgttggtgt tctcatgctt agcgtgactc tggctcgctt agcacacata agtgaatttc 120
 agcttatcgc gcgtcttctc gcttatcgaa agcatgcaag cagtgcgctt agcgggatga 180
 gccctcgctt agcgcgtgtg tccagctcat ccttcttcca gattcttctt cacgctcagc 240
 cgtaggagtg gtgcactcag cggatggctc gctaagccgg cagattggct tagcgagaag 300
 ctaaaaatta gcacttcaca aacttgctta attaacctga aattataagg agatgattat 360
 taaatacaca acatgtgag 379

<210> 18045

<211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18045

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nggactgtgc tagagaaaac aacaaatgac caatgtgaac cttgagccat ttctagggca 60
aaattgggtg ttgaagagtc aaatTTTgat ttggcggaat tttaggtgta aatccagttt 120
ggacaagtct aaattgatgt tatagacttg tgtgaggtga gagtttgctt caaatTTgtc 180
ccattctcaa tttcacttct aaagcctaga aaatccatta aattgagggg ttttggacac 240
ctacattttg tgTTgctgtg gtttgaagct tgactttggt ttatacatga ttgatacatg 300
atttgggact tggaggattt gatttgggca agattggatg aagggaagtg tgattttcga 360
aatctgcact tatgcagaat tctgctgtca aaataggtgc agcaagat 408
  
```

<210> 18046
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 18046

```

agcttTtgaa aacaaaaaag tgcaacacat ttgatatagt ttataggctt ctgaagttgg 60
ctctagtctt gccagtagca agtgcaagtg tgaaacgtgt tttttcagct atgaagtttg 120
tgaagagtca actatgtaac aaaatggatg atcaatgggt aaataatcgt cttgtaactt 180
ttatagaaag agatgttctt ggaacaatca acaatgaagt tatttttagct cattttcaaa 240
aaatggatag tagacgattt ttattgtaaa tacatttcct taaacaacat tattttcttat 300
tttcaatata ttttagtcta ttagttcttt tatattttac ccacactgat atttattgtc 360
tggatccg 368
  
```

<210> 18047
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 18047

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tcattagaga atcacaataa caacaatact accatatcgt ttaccaccac tatcaatgtc 60
agagagcaca ttctcagaca taaagcatag gcgTtTgtgat gccgtcacca cctcaccgc 120
  
```


gtttcgtctt cttgaaacca aatatggctt atttgtcacg aggtatggag aagatgaaac 180
acgactaagg tgatgacagc ataacgctgg aatgcgatga acagagaaag agtgagtcac 240
tgaccagaaa cggagaacac cctaagagga agaaagagag aacaacaatg cattggcgag 300
aagatggaag agaaaatgga aatggaaagc gtgagaagag gatgaaggag aataggcgag 360
aaatactaataat ggagagacga cgacaatgcc acaacgcttg gacgacgatg agagagtg 418

<210> 18048
<211> 200
<212> DNA
<213> Glycine max

<400> 18048

gtaaagggaa gccatcgtgg gaaggaaggg cggtggtcaa agctcgcggt tgagacaaga 60
aagtgaagga agcccgcct gccacataag tagaagcttt ataagcgcgg gtctgggaga 120
cgaaggtcaa gtggtcgcaa tatacgaaga tgatgttccg agtacattgg atttgggtacg 180
accttgcct cctgatttca 200

<210> 18049
<211> 347
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18049

ctcncactcg ataatggaga cacatgaaca gcgctttgca atgacattca cggagctcca 60
aataagagag gtatattgag gaatgtcttg agggctctct cttatgcaat catggaacac 120
agctccaaac tcgaaagtgg aggacacatg aacaacccta agcaataaca ttcattgtggc 180
tctggaacag gatgagaatg gacgattgac ttgagggtcc tctcttaggc aatcatggaa 240
cacagctcca aactcgaaag tggaggacac atgaacagcc ctaagcaata acattcatgt 300
ggctccggaa ccggatgata atggaggatt gccttcacgg acctctc 347

<210> 18050
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 18050

ttgcttggaac cctcaagaaa ttttgggtgct actattgaac aaccttccaa cagtacaagt 60
 tctgatctta atattgtctt agtttctcaa gttgcacagc cttctgatgc tcctttgcag 120
 ttttcaactt ctttcctttc ttttgctagt gtttcaaagt gaaaaaatga gggtttggat 180
 gttggaatct cacgtgagga tgagatggag gaagaagctc ctgagacaag taacaacaca 240
 actgaactta ttttaagaag ctntggcggg tttgcgatta actcaaacc taaccatca 300
 atgcctaaga caaatccttt tgggggttca ttttaataatt tagcaacaag tttatcatgc 360
 tctacagtta ca 372

<210> 18051
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18051
 tggatttcct tttagtaagg aatctatcct tccttatatg gagccaaacc tagtccccct 60
 tattaagaac tagctccttt cctcctctat tgcccttagt tgaataaacc tttgtttggt 120
 tctctatttg gttcttaacc ctctcatgca acttcttcac aaactatgac ctacattccc 180
 cttctttatg tataaaagaa gtgtcaagt ggaaggggaat gaggtctaag ggtgttatgg 240
 gattgaacct atagacaacc tcaaaagggg attgctaggt ggttctatga acccccctat 300
 tgtacgaaaa ttttcatga ggaatatact catcccaaga cttatggttg ccttttagaa 360
 gagcccttaa aagggtggat aaagacctat tcactacctc tgttggcccc tta 413

<210> 18052
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 18052
 tgcttggaag gatgcttcaa tggaggaaaa gaaagagga gagaaagaga gaggggggag 60
 cacgaaattg aaggaagaaa aaggagaga agttgaactt tgagttgtgt ctcaagac 120
 tctcattcat caaagttaca acaagtgtta cacatgcttc ttttataga ctaggtagct 180
 tccttgagaa gatttcttga gaaaacttcc ttgagaagct tctttgagaa aacttccttg 240

agaagctata gcttagctac acacacccct ctcataacta agctcacctc cttgagaagc 300
 ttccttaaga agattcctaa agaagctaga gcttagctac acataccttt ctaatagcta 360
 agctcacctc cttga 375

<210> 18053
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 18053

tcttttagac cttgaacaag caatcaactc ctctttataa ccatgctatg tgctcgcgac 60
 tgggtcccttt ctcccttcg caacttgaga tcaactattgc taccatag agctccgcga 120
 aatttggtcc ggccatactc ttccttgca gccctcttg tctctcgttc aaaggctctt 180
 gcggtaattg cattctcttc ccgtaaccg gcacactcct tccgaacgtg tgtagcagcc 240
 aacttgaact tctccttggc gagggttgcc ttctctaact cgctttcgag agcttggact 300
 tctcgtcct cttgcggtgc ttcaaaattc tcttcgtga cgacttttaa cttggcgagc 360
 caatctaac ctggtatgag aactttcagc cattcgtgga ccaccaatg at 412

<210> 18054
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 18054

tgcttgtaga atggctagac atgatacatg tcagggtttg gattggttca cggataaaag 60
 ggatgcccc cattatttcc atgacacaaa tgcaaaaatg atgatttga aacttcagtc 120
 aaaactggtc atgcatgcac ctatgtggac gctcaagtgt caaattttta tggatcatgtg 180
 atgetaaggc tcacgatcta ttgctctat tttaaataa ccaatgttt ccaaaatatg 240
 ttcttttatc aatttggtga ttcattccgag ttcatttcgg gcgtccggag aaatttcaca 300
 gcattcacc ttgaggtgta gacacatttt tcaaaaattt gttatgatca atgaattttt 360

<210> 18055
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 18055

tcaaagtcaa aaactaaccg ggtgaagatc gacttatgat gaataatgaa tgaggaacgc 60
caaagaatag cgaagaacgt ccatggaatt gatcacggaa acgtcacgga agcgttatgg 120
aagcgcctag acttggattt tttccttctt tcttattttc ctcactaatt ttaagtgaaa 180
actgaatatc ctaagtgttg aacccttcc ccttagccca aaatgctatt ttatagctaa 240
aatgagggag gtggttgccg ccagctctag ctcagctcac ctaatcgagc tcagctctac 300
caagcgagct atgtagcttc cacctgaagc aacctccctc cagaatattc tagatgggcc 360
tatgactacg tacaccccc tatattgatc agttcacctc cctttatcat atttttgtca 420

<210> 18056

<211> 344

<212> DNA

<213> Glycine max

<400> 18056

ttgcttgtct cagcgcttat gcgagacgga gaccaacatg ctggctatca ttgccaagta 60
ccaagaagag ttaggtctag ccgcggccca cgagcatatg attgcggacg aatatgcca 120
agtatacgcg gaaaaagagg ctagaggaag ggtgatcgac tctttacacc aagaggcaac 180
catgtggatg gatcggattg ctcttacctt gaacgggagt caagaacttc cctgattgtt 240
agccaaggcc aaagcgatgg cagacaccta ctccgcccc gaagagattc acgggcttct 300
cggctattgt cagcatatga tagacttaat gggccacata atta 344

<210> 18057

<211> 398

<212> DNA

<213> Glycine max

<400> 18057

tgccaccag ctgcgccagg cgagctaagt tgctttctcc agaagcaaca accatctgga 60
ggaatcttct ggacggccca aatgggcctg gttgctatct gcaccccat tttactaaa 120
tacaccccc ttgcactttt ttggtgattc ctttttctgt aaagttacgg aaacttacag 180
attatgcaac gatacttggt ttctttgcgt aattttacgg aaccttgccg attacataat 240
cattcccttt ttgacttac ggaatgttac ggaacctcac taattgtgca acgatgctta 300

cttttgattt ccggtgtgtc acggaacctt acggattgtg catcaatact ttctttcggg 360
 tgtccgcaca tcatggtact tcacaaattg cctaataga 398

<210> 18058
 <211> 309
 <212> DNA
 <213> Glycine max

<400> 18058

tgcttgccga gctcaccgtg aattgagaga catggacact ttggcacacc tcatgtacga 60
 tcttaggatt tattacctgt tcttagcaca taatacgtgt gacactacga gataacccta 120
 aatcgggtata ggtcgataca atatacacta gttttattca taaatgttag tcgttttcac 180
 agacgaactc tgtacagtgt ctatcgcttt agagtgtatt gtatgaaaga ctcatgccca 240
 tgtttgcata tgatctagaa ctgcctgcta taaggatgat atcaaaacgg tactggtact 300
 gtataatga 309

<210> 18059
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 18059

ttggagatct tgctatccta cgactcgtgg acaacctcat cgtgaagagg aagtcacct 60
 gacagcatga gatgatattg acagtgatta ttatgctctc taaggggatg acacatcctc 120
 actgcgtgta tggcatgcat acttcataca tctctttctt gtgttgggca ggaagcttac 180
 catatatgga cacctaagct ctctgttggg gcatccttat cagtacgtg atgtaaata 240
 ctggaaagcc a 251

<210> 18060
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 18060

atcttgagag atatacatc aagtgagatg agatgagaaa gacaaccgaa ctgagtgagc 60
 ttgagaattc taaaattcta tgttttgaga tgaaatttat aattctctgt agttgattga 120

aattttcttat taaagttctc cattttaatt tcctttcaat aaaaaaacc aaaaaaaaa 180
aacttagcat aatcaaatcc cctaaaaatt actttcccct cttaaaatac cttatcaaaa 240
caaactcatt caaccgctac cattcaccgt caattttgac agttaaacgg tctataaagt 300
tagttgttac attgttttct cattctttca agttagttgt tacactgctt tctcattccc 360
ctgcatgtca aat 373

<210> 18061
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18061

tcttanatta agtcaatga ccgtggcaaa agatctcagg atgaaggacc caaatgcatt 60
aagttggtct attttaaaag taaaattcac gtttgcaga aataaaaaaa ataaaataat 120
agaaaaaaat ctataaattt aaattttaag attttaaatt aaatataata ttaaattcat 180
ttgcataatt actcataata tattgatcta aatcttccga gtgattaacc ctgtgaaatc 240
agaacacatc ttccatatat gtgaatttgc gattatttaa ttttattcta tatatattga 300
gcataggtta gtgttaaact gttagttaat taattaatct tgcaagacac cttatccatc 360
aatgcgtaaa aatgggttgt accaaaaacg aacgttcaac tgagtcatca nagtccatat 420
ggtttcacgt t 431

<210> 18062
<211> 535
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18062

ccaccgcccc acgcgcggca gacgagagac ttatcgatac cacaccccc ccccagcga 60
ggatgacctg aaacgcagaa ancaangaca cacaagacgc caccggacn caagagacag 120
agagggtttt accttttaac gccacatacc cggccgaggg acaattaggc acctgagacc 180
ctcgaagaca caaggctgta tctcgtcgcg cgcaagtaag atcccgacac aatacgccgg 240
gctaattggga ctttcgcaca gagacccaaa gaacaggggg cgaagtcgcc aacaagcgcg 300

ggcacacgcg accaaacgca ccgctcagaa gaagacggca aaaccgccaa cgaccgcacg 360
 atacagcgat accgtgagag aaagagaccg cataccttaa ctgtcagtac atgagcaggc 420
 ccatgacaga ccaactggatc ggacaaaaag cgcgagagcaa ccaagcgcaa cccctcaagt 480
 ccgaagagaa gggcgcgcg ccatctatcag cgaggcacga ccacgaggtc ctacg 535

<210> 18063
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 18063

agcttgtcac tggagctgac ccatcaactg ccctaactct ttcagactgg tgattcctag 60
 gctcttgacc ttgacttgat agaacctctt tttaagtga ggcgcctgac tcgatccac 120
 gctttactaa agggaaacaa aacctagtag gaatcaaac tctgacatct atcatgggtg 180
 gaatggacga atgcatgaag aaatgcatat gacacatatg cattttatga atacgggagc 240
 ctggggatat gtcccccttct tagatacaac atttgggcag cacggcgccc gacgtacgta 300
 tttaagatgg cgacacggac cctctgtcag ttgacaaaag ggaggggatc aagacgcaat 360
 ccgtgcatga tgcac 375

<210> 18064
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18064

gcacgggtct gggagacgaa ggtcaagtgg tcgcgatata cgaagatgat gttccgagta 60
 cattggattt ggtacgacca tgccctcctg atttccagct gggaaattgg cgagtggagg 120
 aacgccccgg catttatgca acaagcataa tgtaaacctt tacgggttta aaagctctat 180
 aggtgggcct aggtcttaga gtttttcctt ttgttaaggc tttgtgtctt ttgtttttga 240
 atttataata caaggacctt tcttcatctg ttcctacgtc tctaccatt ctcatcatt 300
 tgcattgtta cttctttatt tctgaaacgg aagatccgat gacgagtccc tcgaaggtag 360
 taatacctga gaccgctta tcaactttga gcaagaaacg aatcacacag aagatg 416

<210> 18065
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 18065

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agctttagg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
gcacaacaag ttttccacat ccacaaatcg cgcataaacc caccatcccc tggtgcccac 120
ctccaactga gctcacgtac tcccacgtaa cccatatacct cgtttctctc aacaccgggt 180
ccccatcaat cctcccaagc ttctccaaca tccaggtaaa acaacattca aacagcacia 240
actatcacag ccaagaaaac agggcaaggc agaaaactgt gcccaaagca ccaacaaaaa 300
tcacagcttt tctcacttaa agaccccagt aacaattcct tcgttccagt tcgttaaccg 360
ttggattgac tcgaaaat 378
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<210> 18066
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 18066

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tgcgctggtt ttattcaact tcctaggatc atgatcagct atgtgtgtcc tactatgact 60
tgagaaataa aagtgatcaa ataacaagca gatatttaaa aggtactaag ttgcctccta 120
gtagcgcttc tttaacgtct tgagctggac gcatgatgac ttgtcgggtca cggacctagt 180
actttgctta cctttgggtct tggacttggc cgcctatttg tcgacctagt gtcgtaggca 240
acgctctaac ctttttgtgg ataagctgag gtgaactcta taggtggtgg cggcgcgctt 300
attgcccact gccggccatc ccagcggtgt tgtggtgttt cgcctgcgc ctgcctgggg 360
gcgcagtact tcttgatgaa agctcggtta gtatgacttg atgaccttgc tggaggtgac 420
aggcacacc 429
```

<210> 18067
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18067

agcttttacag cagattttag taatgaccca ctaacctaga attaaaataa cttaatgcca 60
 ttaacctatg gaattaaaac aaacttaatg gctgagtgtg actgatattg tggcaaccaa 120
 aagtcacccc caacagccaa caagtcagcc accatttggg cccccaaaag gctgatgcct 180
 atgttgccaa ttggggccctt attacaactt gaactaaagc ccttttagtt gattaaccca 240
 aaacatattt ttggccagcc aactttacaa ggattggggc attatttaga caaactaaac 300
 actctaanat tgaaataaag tgggtgtcatt tagtcctcct ccatttgggc catgatacaa 360
 ctcacaacct tggacttttc 380

<210> 18068
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 18068

actcaagctt cctctgcact aaaataagac attatcggcc agcgagcggt ttataaaaga 60
 aattgcgagc tgtcaactga aaaatatcag tctggatact tcacgacaga tgtcggctat 120
 tgagttgtat attcaatccc ttaatgaaat atgcatgatg tcggtaagga aatgttcgat 180
 cgacgtcatg cgggtgatgct tccttggtta cctggatcgg ccattcttcc tggccgaagt 240
 cgacaggaat ttttttcgat caatatcggt gaaaaatatt tttttgccga gatgggctaa 300
 tgttttcctg gcctaataca tgcaaatatg ccagtttctg ccgaaacaaa actgcctgtg 360
 agctctctta aaaaaactta gccgacctac attgtacatt gtttatgcaa cacc 414

<210> 18069
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18069

acgttttgctt tcttacattg agaaaccatg catccagagt actgatagct actgaccttc 60
 cgaatctatt caggaattgt ttttgctgca tattattaaa ggacatacat ctcttctatt 120
 tgcttcatga tcacgcccatt ttttcctcag caatactctc gtaatgctgt gatatgaant 180
 taagtgtctg tactacgatt gaactttcca tttgtcatcg ttcacgatct ctttcttaat 240
 atccaatgtc acgactgatt atagagttca gaaatctcac tctgttatat attctgaaat 300

ctgatgatag ctaagaggta atatcttatg ggacaatcct ttatttaata tt 352

<210> 18070
<211> 293
<212> DNA
<213> Glycine max

<400> 18070

gagaccaccg gcatgactga ctatatggtc aaagagaacc acaaactctgc gtaagaagag 60
gaagatggct cacaaactac taaagggtcac agccatgaat cacctgtcac acgttctcct 120
cctttatgcg gcagccgcaa agattatgct tataagggca caaactatca gcttgaagaa 180
gcagtatcac agatcgactt cgaacggat agcaatatcc tgcaagctag aggatctttg 240
cttagctctc agcagaacaa gatggaccct ctcaactggt acttgaaaga taa 293

<210> 18071
<211> 295
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18071

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ggccagaact acttcattag aataatttga agtccactaa attcaactaa caataccaat 120
aagtcccagt acaaaacctt ttgatcaata aaaaactcta aactgggtga ttgaaaaata 180
aagacagaat tttattacta agcttgtggg caaattggac ccaggggttn actttttaat 240
cttttttcga actggtatgt ttgaaagaaa taccaagggg tctgggtttc taagc 295

<210> 18072
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18072

tagctttgtt tatctttaat ggctaatgt ttgacttaat agttttcaga cattcccttc 60
aagaccaaca aggttgggct tgtgagtctg gaagacccaa ttctttttct cttcagtttt 120
tggttgatcg gtacaaattg ttaggctatt ggactttgca caggaccaa atacaggggtg 180

gggtgtagact agattgtggt atacggacaa attacatddd gaaaagttda ttgtaaaatg 240
 taatggaaaag tacaagaaat aatagtgaga gtgaaggaaa ttttatccct aaactgtatc 300
 tacatgatca tgcataagac tgtatactgt atcgtccaaa aaattcgaac caattaagtt 360
 caaccctctc attcttaagt gaacttttgc tttntattta ttda 404

<210> 18073
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18073

tgctttaatc taaacatgca tttagtgttt agaataaata tgtagcaga tatagtaagt 60
 tggtgcaact acggtatddd tttttcctaa tgcgataagc ttgctattaa aaccaatctt 120
 gtgtatctat caaaactcgt ttgaactgga gttggtttct ccttttactg aggttaacta 180
 gaataccatg gtcgcgggtg tgaaaggaaa agtggtgcta aaaaatattc attgggatta 240
 ttattctata aattaataag actgtgtttg gcaatgacat gacttgattt attcaatnta 300
 tgatttataa atcagacagg aaaatggagc aatgaattac ttatccagaa tggtgaagca 360
 cctcaagtac aatg 374

<210> 18074
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18074

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 tttgttatgt gtgcatatat agtcagttct tgatgtaaat ttcattcttt aggtatcatc 120
 ttattggaga ttttaacatt ttatatgtac agtctagcaa ttttaacagc atatctcttg 180
 tagggctcat gttagactac aaagaagtta ccctatctca ctttagttnt gctagcttct 240
 ttctgatgtt caacactggg actttatgtc catattgatg ttttgcttcc ttttgggtatt 300
 tgagagaagc aaaatttgat ctaacttcta ttttaacaaa agatataagc ctctcatgga 360
 aaaactctct atgggtttga tgtactttga tcttaaacaa gcgtccaaca tatgggttacc 420

tggttg

427

<210> 18075
<211> 369
<212> DNA
<213> Glycine max

<400> 18075

tgcttctctt ggaccttagg caaatcctca attcatcctt caagatcaaa ctgtctactc 60
gtgattgggc cctttcctct ctccggagct taagctcggt gttactgccc cacagagccc 120
ctcggaaattt gttccggcca tgttcttccc tacgggcccct tttgggtctct tgttctaagg 180
ccttggtggt ggctatatatt acgtctctca gttcggcatt ctcccttcgg atcttaagag 240
ctgctgattt gaacttttct ttgactattt gggctttctc gatttctgtc ttgagggcct 300
gcacctcttc gtctctctcc ggaacttcaa ctccaccca ctcagtgggt ctctaactcg 360
ggagccaat 369

<210> 18076
<211> 393
<212> DNA
<213> Glycine max

<400> 18076

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ttatgcatga agccatttca tggccaatgc gagccaaatg ctatcctgtg ggagctaggg 120
tctataaaaa tccaaaaaag acccttttgc ccccttcttt ggtatctttt tgttttcttg 180
atcaaaacac taagtgattc cttgcttcgt actggaacta gcgccaata tcataattcg 240
actagcaaga atcaaaatat catatcgaac gatattcccc ggacaaaatt agggctctgac 300
attttcccct ctctacttat cttttattga agatgaaaag gtgagtaaag ataaagacac 360
taatttcatt tgagcaatct tgctatttga aat 393

<210> 18077
<211> 369
<212> DNA
<213> Glycine max

<400> 18077

agcttctcaa gaaggtgagc ttagttatta gaggggtgtg tgtagctaag ctctagcttc 60
tcaaggaagt tttctcaaag aagcttctca aggaagtttt ctcaagaaag cttctcgagg 120
aagctaccta ttctataaat agaagcatgt gtaacacttg ttgtaacttt gatgaatgaa 180
agtcttatga gacacacttc aaagttctac ttctctccct cttttattcc ttcaatttcg 240
tgetcccccc ttctctcttt cttttcctcc attaaagcat cctcttgaag cttcttatcc 300
atggcacatt cttggtggtg aagctccttc ttccatgggt tattccctag tggatggtgc 360
ctccccctct 369

<210> 18078
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18078

tgtaagatta tggggtaccc atcacatgtg gtactatgtg gcggtcgggc gatggtgcac 60
aacaagtttt tccacatcca caaatcgcg ataaaccac catcccctgt tgcccaccta 120
caactgagct gacgtactcc cacgtagccc atatccgtgt ttatctcaac accgggtccc 180
catcaatcct cccaagcttc cccaacatcc aattaattca acatccaaat catcacaaac 240
taacaaacca agcaaaacag ggcaaaggca gaaaactctg cccaaaactc ataccaaaat 300
cacagctttt tctcacttaa agaccccagt aacatttcct tcgttccaat tcgctaaccg 360
tnggatcgac ccgaaaatat tactggaaat ctctagtaca taaggata 408

<210> 18079
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18079

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aacacacgac aacgtcaatg tcaatggata atagaatgac agcggaaatg aaaaaaggt 120
caaactttct aaacgcatga gtgatattac tattcttatg ctgaatataa atgaaatcgc 180
tattgacaat tgtaagatc ccaacggata agtgctatct gagtccgaca gtaatatcta 240

tgttttgtgc ttctcatacc ctctctttaa tttggagtat atgcatgcat tcatttttct 300
 ttattctgca tgggtctatca ttacctcata atatccatgt ctttgaatta gtaggccctg 360
 tgattcatgt 370

<210> 18080
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18080

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 ttgctgatgg cttcttcccg ttccaagctt caattggagt cttgtctttt acagacttag 120
 ttggacatct gctgagtatg taaacatcag tgtatactgc ttcagcccag aatgtgttat 180
 gtagtccctt cttcatgagc ataaatctag ccatctccat aactgtgcca ttctttctct 240
 cagacactcc attttgttga ggagaatatg cgactgtaag atggcgctca atgccttcat 300
 cctcacataa tctatcgaac tcgcgagagg tgtactctat gtcgcgacac tgcttaatac 360
 tttatcacct ttcactttga ttttaacaag ggccttgaac tgttagaata 410

<210> 18081
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18081

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 atcatgaggg agctaacaca aattttcatg cagggtggacc ttctttgagt agttctgact 120
 tgtagcagtc tcctatccct cttccatttc cacctagagc aattccaaac aaaaagatgg 180
 aagaagtgga aaaggagatc ttggagacct tcaggaaagt agaggtgaac atacctctgc 240
 tagatgccat caagcagatt ccaagatatg ccaagtttct aaaggagctg tgcaccacaca 300
 aaaggaagct canaggcaat gaaaggatta gcatgggcag aaatgtgtca gcattgatag 360
 gtaaactcta 369

<210> 18082

<211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18082

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 aaatcggatg agggaaagtg tgatttctaa aatctgcact ttatgcagaa ttttgctgtc 120
 aaataggtgc agcacaattt tggctctgtg cagaaagtgt tgtgtatttg ctggctgtgg 180
 aaagagtagt acagattggg ttctggacgc tttctagcag atcccaacgg tcataatgta 240
 gatttatgtg ctagagactt ccagtaaaat tttcgagtcg atccaacggt ttacgaattg 300
 gaacgaacag aatattactg gagtatttga gtgtgaaaag ttgtgat 347

<210> 18083
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 18083

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 tgaaaacacg agttacggta gcatcatgat tggttgaaaa ttgctaacct tccctaacat 120
 ggaaaagtta gaaccataaa gatgtcgaaa ggaatatcct tgctcatctt tctgtttaga 180
 cctcacctga tgtgacaaat actctcaact catcaaatta atatctttgt ttaccaagat 240
 aaatcaagac ccagagtcac tcttatttca tcaattcttc tagaatatat ctctgtttca 300
 cacataaaat ttgcattcga ttggtacgac caaatgaggt cacgaaggta aagaattggg 360
 aagttcagat g 371

<210> 18084
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 18084

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 aaatttatga tatattctga tcaggattat gaatctgact gagaatatca gtatcttaga 120
 aattaagggg aaattaattg gattccctaa tactgggtct cctattcctt ggctctatat 180

agaccattaa ctttttgatc aagacattaa cacgagatat tttatatgct tttgtataat 240
gcaagtgtaa ccttagacac tagacaaatg attttgaccc atgaaaaaat atataatttt 300
tgttatagga ccttggtgcta aatcctagat ggacttatgt cacattgttc cttaatttaa 360
tcataatgtt gtattttctt tttatttaaa cagctctggc gtgtttgtta gtgcttctga 420
ggataaaaca ggg 433

<210> 18085
<211> 358
<212> DNA
<213> Glycine max

<400> 18085

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cctcgggcaa gtattagact agctcatgtt tctatgattt gactcgagaa ggacagacaa 120
agagttgtgc ctaatctgcc aaaggaagat tttaatgttt tgggtggacat tgcactttca 180
aatccaattg aagtcgaaat tttgtaccac tgtagagtta tcttattagt tttgcaacca 240
agcataatct gaatgagtgg tataaatacc atttttattg ccatccaag caaatgagtc 300
atgaacatca tgatgaagaa tagggatgat agagataaaa ctttctatga cttcatca 358

<210> 18086
<211> 320
<212> DNA
<213> Glycine max

<400> 18086

ctcagcttca aaatactctg gaagagcgcc aatttcaaaa tttcaaaatt gctattagca 60
cccccccat ttttgatcag ttcaccccc ttctttcgta atttatggaa aagttacgaa 120
agtctatagg acttgatttt cttcttttat ctcttctgtc tcacccatat taagtgaat 180
atgcttattt acggttatgg aaattttaca gaagcattac ggggtgtcca gaagcctcgg 240
aagccattt ttttaacaaaa cgggggatgt ggtggccagc ttcttcccca ttgcgtcctt 300
ctgagattca ctattctacc 320

<210> 18087
<211> 380

<212> DNA
<213> Glycine max

<400> 18087

tagcttataa cttacaagcc ttcaactaac ttatccgtta gttttatcaa acataaccat 60
actgaagttt cattagtttt tttatttcat atatttacta gcaacattct aaactctagt 120
ttccacaact tacttggtta gcttctaaaa attagttttt aaacatattt acataattct 180
aaaaaaacaa attatgaaaa tataaccttt tacttataga gtataatttc aaaaatttta 240
aatttagtca tgtatacaag agcatcttta gaagaaagtt ttttttttct tttataaaaa 300
aaggtcaaag ctgtatttaa aaaaaaattc aaaaaaaaaa actcacatat atacgtcatc 360
attgatcgaa gccttactat 380

<210> 18088
<211> 411
<212> DNA
<213> Glycine max

<400> 18088

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ccttctaacc ccttgatcat gctcacggct cactcgataa gcttcacacg ttccattctg 120
catggcttct gtcgtaacct tctggatacg ctgggggtgga cctttccctt cgtgggtctcg 180
cactccttgc ttctgcacc tcctttgcta ttgacacccc ttcccttaca tttcccgtaa 240
cagaatccaa aatattaaca tgcttggata ctcatggaaa acccggttaa cgggaaaaaa 300
aatataattt tctagacatg aacgtacaag tgtaaagagt gttacttttg aaaaaaacgt 360
tgttacactg aacaaaaacat tttttcaaac acgcgttaag acattagggtc t 411

<210> 18089
<211> 382
<212> DNA
<213> Glycine max

<400> 18089

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taaaaagtta ttcgtttgaa tttgctcaga gtttcaacgt tcaattttga gcgtctcgtt 120
atattacggg actcaatcag acatccgagt aaaaagttat tgtcttttgg attggctcag 180

agattcaaca ttcaatttcg agcgtctcga tatatcacgg gactcaatca gacatccgag 240
 taaaatgata ttgtcccctg aattggctca gagcttcaac attcaatttc gagcatctcg 300
 atatatgacg ggactcaatc agacatccgt gtaaaaagtt attgtgcggt ggattggctc 360
 agagcttcaa cattcaattt cc 382

<210> 18090
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 18090

tctatatcag ctgaaccatt ttatcaataa acacatgttg cgtttttattc agaaaattag 60
 aggttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcatgaac 120
 accttggtcg tatcacagga ctttcacaac ctttgtgtgt tgtcctcgct ggaaagagcg 180
 atccttccct ttctttcatt atcacccttg ttctttcaaa ccacaattcc agaaaatcca 240
 cctctgcccc aaattatctc gtggccataa ctcccatttt acgcactcaa attaagtgat 300
 tcttgatcct acattgaatt tcacaacgag acctttcacc tcgttatgga atcacctcat 360
 ttggagccat gtagcttcag ctatcgccat ttctatatatt ctgtccagcc accacttaac 420
 ctacgtctta cc 432

<210> 18091
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 18091

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 aattgtggat tctataagtc aatttacact attgtttatt accttaactta ttatttttaa 120
 ttcatacata atttacttta tgttaacaac aataggcata tgactgagac aagtatgcga 180
 gcggggaata ccaatgtgta tggattcctc gagccacaat ccatccagag atctggccaa 240
 tcacaatttg aattaaaaag ttacattaag aactgaatgc agaattcaaa acgggatgtg 300
 taccaaggag cctacctgaa tgggtaagtt aaactaaaca aatgaattaa ataatgtata 360
 atgct 365

<210> 18092
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 18092

gtggtaaagc attgattcta tactgcttct ctcacatgt ggatcatgat gtccacaatt 60
 taatgatcct ttgctaccct gcagtgcgac acacacagat acacatacac acacacgtgg 120
 agacaatgac acgcagacac aagcactgac acacattcac acttggagat gcacattgac 180
 actcacacag agtcacgctc acatatagac gtagactatg acacaaacac actgagccat 240
 agacgcacac ggagacccac acacaaagac acacacactg agtcataaac acacacatac 300
 agagtcacgc tcgcacacat ggacagacac tcacacacat aaagagacaa acgcgacaca 360
 cgcaca 366

<210> 18093
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 18093

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 aacaaaaaac aaacgggtcaa actcaaattg gttttggggg gcttccctta catggaaaag 120
 ttataaccat aaaaacgtct ataggaatat ccttgctcat cttttctgtt aaacctcacc 180
 tgatgtgacc aatactctca actaatcaaa ttaatatctt tgtttaccaa aatatatcat 240
 taccagatt cacctcttat ttcattgaa 268

<210> 18094
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 18094

tgcgctgatg attcggagtg ttaggggttaa tgtgttgaaa ggaagtttag tgcagaaatt 60
 aataatctga agagattgag agatcttgag gaagtaggat gatgttgact ctatagtga 120
 attcaagatg cttaaggatt agctagtgga gcttctggta aaagatgaca tttattgaat 180

gcaaagagcg aacattgagt ggctacaaga aggagattct aactccaaat tctttcatta 240
catggccttc tcttgtagaa agagcaacaa tatttcttag cttcacaatg attctggaat 300
gttattaacg actcaacacg atcttaatca agtagcaaag aattattttg ggaacctttt 360
caattcatat tcagattctc ttgatgaggt gctagaagtt attcatccaa gtgtttcaga 420
tat 423

<210> 18095
<211> 117
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18095

ttcattctat gtaccccggtg tggccacat tnttggtcat gtatttttat tcttggtttc 60
atttactttt tataccccct tttgatgtgc ttaagccatt tatttaagtc atttctc 117

<210> 18096
<211> 422
<212> DNA
<213> Glycine max

<400> 18096

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ctctaactaa gttgactcgt aagaatgaga aatttgtctg gaatgagaag tgtgatcaaa 120
gtttccaaga gttgaagagg cggttgacaa cagctccagt gttagttttg cccgacccta 180
agagaccatt tgaagtgtat tgcgatgcaa gcgggcaagg cttgggggtgt gtgttaatgc 240
aagagggaag agtagtggcg tatgcttcac gccaatgagc tcctcatgaa gttaactatc 300
cgaccatga cttggaacta gcagcgggtg tggttgcttt aaagatttgg aggcatatt 360
tatacggtac tcgttttgaa gttttcagtg atcacaagag tctcatatac ttgttcgac 420
ag 422

<210> 18097
<211> 372
<212> DNA
<213> Glycine max

<400> 18097

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ggtgatttcg cgcgtttttc ttccttggaa aatgcaccgt gagcctcgcg ccgacctcct 120
gttgaaggggt aggttgcgac aaggtgtaca cacattaaca gaaagaataa ctagaagcag 180
ataatgtcaa atcacagcag aaataacaaa ataagccaaa agcaataatg tcaaatcata 240
atggaaataa caaaataagc caaaagcaat aaagtcgaca gaagacaaat cagaagtta 300
gtgatccggc cgtatagccc tatctcctca caggaggaag tctatcaggt cagccatgtc 360
cctgcggggc ct 372

<210> 18098

<211> 423

<212> DNA

<213> Glycine max

<400> 18098

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aagagttatg tctagccgcg gccacgagc ataggattgc ggacgaatat gcccaagtat 120
acacagaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180
ggatggatcg gtttgcctct accttgaacg ggagtcaaga actttcccga ttgttagcca 240
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attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
tgggtctctaa gaccttgact agatacgact ttctttttga aataaaatga gttgggtccca 420
tgt 423

<210> 18099

<211> 370

<212> DNA

<213> Glycine max

<400> 18099

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atcacattaa ataatgcctt ttcggttggc tcaattttaa aactttgatt ctaaccatgg 180

tatcatgtag cccatctcac atgatacgat aagattttat tgatgttggt gatggttgac 240
tcaatttatt tgtttctctt ttcaaata atgacaattg atactacca tggttatcaa 300
acttttggtt aactcgctaa ctcttacgat tttatgagtt cacttatttt ctgtgagttg 360
attcgtgtgt 370

<210> 18100
<211> 407
<212> DNA
<213> Glycine max

<400> 18100

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cttgtttgac aagtggcctt agaaatctta agaatggggg gttgaattaa gattatgctt 120
actattcccc caattaaaac ctactcagat ttttatgcaa gttctgagtt ccctttataa 180
taaatagactt agatgatgaa tcaaatgagc aaactgaaat gagactaata aacaacagct 240
aatataagag ataaggggaa gagagaatgc acaaccagat ttatactggg tcggccacac 300
ccttctgcct acttccagtc tccaagcaac ccgcttgaga gtatcactat ctttgtaaata 360
tctttactag tattgtacca cacaacgact ttctgatgaa aatcctg 407

<210> 18101
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18101

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ataatcgaca agaaagttct cagaaatttt gctctaccaa caacatcaaa gttgtccaag 120
actgaagaat tgaatttcgt aaatgacaaa tgacgagtc tgggtcttgat ctttgtttct 180
ttcccaagtt cttctgatct aaagtaaaaa tctccaccga gtgatgtggc tagatcatgc 240
atgaggtcat gcatcacaaa acatttgcca taaggccaac tacttctact tgtgtttgaa 300
cgttgganaa atgatctcga aaccaaataca tcataatact catgaccaac ctcttctaaa 360
gtcctacctt tg 372

<210> 18102
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 18102

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 gataatttct tcatttggtt ttgatgaaaa ccccatggat caatgcatat accacaaggt 120
 tagtggggagt aaaatatgct ttcttgTTTT atagttagat gatattttac tagcagccaa 180
 tgatcgggggt tcgctacatg aggtgaaaca atttctctct aagaattttg acatgaagga 240
 tatgggtgat gcattcttatg tcattcgcat ttacattcat agagatagat ctcgaggat 300
 tttatgtgta tcacacgaaa cctatattga caaaattcta gaagagatat cggatgaaag 360
 attgtcacca actgttgccc ccatt 385

<210> 18103
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18103

gtagagctga cctgcaggca tgcttatctc cgtaatttga taaatatagt cgcgtagggg 60
 gattagaggt cagttaactt actctatgca cctgactaag ttcaacattg gtgtttggat 120
 gactttctgc gaaaatcgac ctctgtcttc ttaccatgaa gggagggggg aaccaaaatt 180
 ggtcatcaat cgctgaaact tatacgggga tcgtgggata gttaaagggt caacagcaaa 240
 ttgcgtggac cgcagactta caatgaattc tatggaccga tggagggtgca caacctgtat 300
 cataagatag tgatcgtctg tcttgacaat gtatgcccc ttgtgacgag cttatgccat 360
 tgattcaaag aattaatcgc tataacc 387

<210> 18104
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 18104

tctaaatgtt tcaagcattg gacgattctt atgaagaatt aaatacgata gatcgtgaag 60
 tgtcttatga tagacaatga cttggaattc tattctacga aattcaatga attctatcaa 120

gattaaggca tcacaagata gagtaactta cgctatactt tgtctcaaac tggagtaact 180
gatagaataa actagaccct attggaaagg ggcgaatata ttctatccaa tgtaggagtt 240
gaataggagt gtctgggctg aaacattcaa cgcaacatac tatctcaaga atcattcacc 300
atgcactatc ataaatttta gaactcgtag tgaagaatgg tctaacaaac t 351

<210> 18105
<211> 367
<212> DNA
<213> Glycine max

<400> 18105

tgcttttatg accactatgt atttgtgttt acgattgcta agacaacttt atatttttgt 60
attatttgag ttctagaagc ttttattctt tgctttgcgg aactgatatc tatgaccctt 120
catttttatt aatttcttga gcaaagtaat gcttagccta gctaggtata tactttaact 180
aatgttttgt tttcttttat atgacagcca caaaatgttc caagaatagg ccattattgt 240
gttataatca aagcgtattg gcctaaatga ttatattgta tataggtggc aaccaaaca 300
aatggtattt taaaaaata tcactttcta agtcgattct attggtaacc gtcttagaat 360
gtaggcc 367

<210> 18106
<211> 396
<212> DNA
<213> Glycine max

<400> 18106

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ggggtgagaa gtgaaattga taatggggta gagttggagc aaagtctcac ctacacaag 120
tctataacat caatttaaac ttgttcaaac tggatttaca cctaaaattc caccaaacca 180
aaattagact cctcaacacc caattttacc gtagaaatgg ctctttgttc actttgatca 240
ttagtttttc tctctagcac atgccaaact ttctcataag tgctaaatga cattctaagc 300
tatgattaac tcactttaac ctccaaatac cactaaatcc atatttggtc ttccaactct 360
caaaacctaa ctctctttgc actcataaca ccatat 396

<210> 18107
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18107

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tgctttggaa cgtgacaaac tttagttaag gttttaacaa caccatcatg catattgatt 60
tgtacagaac ctataccaac atacttacga ggagtattgt taccataag gacattacca 120
ccaaacttct cctcatatgt cacaagccaa tttttgtgta gacacatatg ataaaaacaa 180
cctaagtcca ataccattg ttcaaatgt tgtagttgtt caccaatgac cataaccaaa 240
tcccttttcg ataaagagtc attctgaaca agggcagcaa tataatagtt ctttactttc 300
tttggacaat ctgcgtccca atgacccggt tnnnttgcag taattgcaga tgtccttatg 360
atcaatttat ctcttct 377
```

<210> 18108
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 18108

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agtcaaaatc catggcaaac acgtccccag tccattgagt gttaaaccac acgttcaccc 60
ttgggtgagcc tttcttttgc taagttcgat ctccatagga actcaagtta cgcaagggtc 120
acccttgaca atctttctta ttcctaactc ttattcgtgc aagaacgcaa gaacatcaaa 180
aaccaagggt ccacccatgg tacgcactcc tatgaaaccc aagggtccacc cttggtaagt 240
actcgttcaa acccaaggta ccctccttgg ttgcgtcact ccttaagaac catgttgacc 300
ataacaaaag gtctagtgtc cttaacgcta agcacactac caccagactg gatggcgaga 360
ccttcaacca ggtggaagtg atcctaactc cttataacca tcatgggaaa agctc 415
```

<210> 18109
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 18109

```
ttctttaata taataattgc attaatagaa ttaatatata tatatatata tatatatata 60
```

tatacacaca cttttttttc tttatttact aatataacaa attgcacaat ttattaaaaat 120
 ttaagaataa ttatttgtaa gagacagaaa ggaacaatTTT acaattgatt aaaatttaaa 180
 atttaacgcg tcggagtcaa tagcaatcag aacaccactc taaattttta caaaataagt 240
 cgtgcctttt ctttacgggt caaaataaat caagtctata tacaattttc tataaatata 300
 attgacatat agccaatcaa tagtagtaat tatgacaaac aagaataat 349

<210> 18110
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 18110

tctctcagca actttgactg caaaacttca caggtgcttt atggcttctt tgcaagtgc 60
 aagacaagct ttggcatctg agtctcagag aacaccaccc tcagtgcaaa atgcaacaac 120
 ctccacaacc acaccaatta gcaacaactt cagtgtgaag agtgagcaaa ctcatgcagt 180
 gttgccacat aagagaccag aggaggagca agagtccagag gcaaataagg gtgtgaaaag 240
 ggttaaggct gtggaaaatg ttcctctgca attcaagcct cttgaggaag atcacataga 300
 gcaaattgatt gaggagcttc ttgattatgg atctattgaa ctctgctctg tcatttcacc 360
 ccaggccctc taattgaatg tgcattgttt tgagctgaat ttaaagtcac aa 412

<210> 18111
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 18111

ttctatattg tgaatcaaag gtgttttgat gatgacaatg atgataacca aagatgatga 60
 cgaaggatgat gacaaaaagc tcaaagatca atcaaatac aactcatgtg aatcaaagat 120
 caatcaaagc acaactcaag tgaatgcaga acaattcacg agttcaagat aagaattaag 180
 aggaattcat gacacaacaa gaaagtttag agtctataat ccagaatcaa cgtttaagat 240
 ctcacgaatc aagagaacac ttaatcacia aagtatgaaa ttcttttctc aaaacatgta 300
 accaaagagt tttactctct 320

<210> 18112

<211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18112

tgtctcanaa tccttctcta agttacgaag ccattccata atttaaatag tgcacatcc 60
 atgattttgt tagcattgaa tatgtcgta gtcaagataa tgttggtccg ctgctgcaa 120
 atagaccatg tcaacgctag ccaccaacac ttccacctgt tgacctttac agcctcagcc 180
 accccaaata tatgttgaag gaaatgatgt tttgggtttt gcgggagagg acccacgcaa 240
 ttcaccaag acatcgattc ccaccacagc ggactgattt tgctgcaatg aaaaaacgca 300
 tgacctgtat tctctccag attactgcaa aacacgcaac tcgtatcatt taattccacc 360
 tgtcgtctgt gaagggttgc ccttgtaagt agtcgatctc taagtaacct ccatgcgaa 419

<210> 18113
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 18113

tatctttatt caaacagaat agtccaaaga tgtcaaagaa ttgggtgttg aaaaagcata 60
 acaagacttt ctgtgattgg tttaaagata caatctttgt agatgaaaat gcttcaaaaa 120
 cattaagaaa gctagcaaat gggcctcaaa gaaatgttat aacttggaag ggatacatca 180
 taaacaagta ttcattttac acaaaagcac aagacgacaa aagtacaatg cagaacagt 240
 gggtcaccct taaagctgaa tctcaacact tcgcaagtgt gcatgacacc aatccctgtg 300
 tagcttccat cccttacttt ggggttcattg att 333

<210> 18114
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 18114

ctgcagatat ggccttcgcc agtgaaagga tcattttgtt ttccaaaaga ggcaaatttg 60
 atcatcctac tatgacgact gacaaaactg gggcaaataa agaggggtgag gatgaacgag 120
 aaacccatgc tgtgattgcc attcctgtac ggccaagttt cccaccaaac ccaacattgt 180

cattactcat tcaatatcaa acctcctcct taccaccac ccagttatcc acaaatgcc 240
 ttcctaaatc aaccacaaag cctgtctatc ccacttccaa tgacgaacac cacctttagc 300
 acataccaaa aacaccaacc aataagtga ttttgcagcg agaaatctct gataattcac 360
 cccaatccca gtatcctatg ctgac 385

<210> 18115
 <211> 168
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18115

ttctccttac gcatctgtgc ggtatttcac accgcatatg gtgcactctc agtacaatct 60
 gctctgatgc cgcatagtta agccagcccc gacaccgccc aacaccgct gacgcgaacc 120
 ccttgcggnc gcatngaata taactncnta taaatgatcg cttacgag 168

<210> 18116
 <211> 292
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18116

tttttcttgt gaaagtcctt ctgattctat ttatgcattt ctgacttgat gacatgagat 60
 gaacataaca gattggacct ctgcctcgat gagattagtg aacaccttag acattaatac 120
 tcgactgata cttatattgt gagactgtgg tttaagctac tctccttgat atttgtctta 180
 tgcctaacta tatccattgg taaaaatgac gttntactct tctctttgaa taactgcgtg 240
 ctctgtgaaa gacagatgat gaaggcactt tgcttcattc ttttatcatg ca 292

<210> 18117
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18117

tctccctctt ttccctataa atagggggag tagtgtattg aacaaaaacg ttcaaccctc 60

ttggtatctg aggatcactt aaaattagtg agaaaaattg tttccgtgaa gaaaatccaa 120
gccgaggcgc ttcgtaacg cttccgatac atttccgtgg gtgatttcgc gaagattttc 180
cacggttctt cgtttgttct tcgtcgttct tcggtcttca actagtaagt tcccgaatc 240
aaacttttnc aattcattctc tgtacccttg gtgggtcccca ctttttttcc gtacttttat 300
tttcatttca tttacttttt gtacccctt ttgacttgct ttagtcattt atttaagtca 360
ttctctcgcc tantcaaaaa taaaataata ttccactgat cattcatatt gt 412

<210> 18118
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18118

aggcgtgggt tcaggcgtca tgcntngcan ngccnaancn agctcggacc cgggataccta 60
tacatctacc tgcattgcatt ctttcttgct tttgagagnn gaantgagcc gtactgtgac 120
tttagatatc agacaatcca atcaagaaag agaaatccaa aagtgaaaca tccgatagat 180
cgttccgctt tattttacta aaagagatct tttaaggata gcatgaatgg atcctctcca 240
gttgccaacg tggttacagt actacggaac ggactgatat cattctagcc tccactaatg 300
gatataacaa acaaacatcc cgggacatta cggtatcctt tgtcacgaca tatacgactt 360
atgtaatgac agagcacgct accaggcggc gaaaaggat gacccaagt atagtacaag 420
aacgtcgggt acccgctgct g 441

<210> 18119
<211> 318
<212> DNA
<213> Glycine max

<400> 18119

taatcttttg ctgagggggt ttattattct agatatcata accttctatg aagaagatgg 60
caaatctata gagggaaacc aaaataagta cctgttagtc atcatctaca actaactttg 120
gtataaaaaa gttttataaa atgtttatcg tttccccaat ttatggttct tttttaggt 180
tgggacatag ttttaggttt agtttaattt tgttcagtag aaatacccaa cattgtgaat 240
ttaatgtgtc taactttaat ttccggtaaa aaggatgaaa tttgggaagc tagcagctgg 300

tgtctcgcta agcgaggc

318

<210> 18120
<211> 407
<212> DNA
<213> Glycine max

<400> 18120

tcatgatgaa tcaaaggtga ttcaaaggtg ttcttatgat aacaatagtg accacaaatg 60
tgatgaacaa aaagctcaaa gatcaatcag agaacaactc atgtgaatca aagaatatct 120
caagtgaatc aagaacaagt caagagttca agataagaat caagaagaat tcatgaactc 180
cagaagaaag tctagagaca agaatcacga ttcaagggtc aagatctcaa gaatcaagat 240
caagattcaa gaatgaagag aagactcaat caagataagt tttaaaaagt ttttcaaaac 300
tttgaatagc acatgagttt ttgacaaacc ttctaccaga gagttttttac tctctagtaa 360
tcgattacca actagtaaat gagtttgaaa aatgtttcat actgaat 407

<210> 18121
<211> 308
<212> DNA
<213> Glycine max

<400> 18121

tctttcttgt gttatcttat catcctgcaa caaaaaagaa aatatcggtc aataatatat 60
aataatttat tatccaagat acagggttgg acttcaacaa ccctagttcc tatacatata 120
caatagctac catcctatct agttttggac tgcagttact tcatgggtca caagtcaatc 180
aactgcttga gatagctagc ttcgcaaaac ttgcaagtca acatttttaa caaatgttta 240
atcaaataaa ttctcactag gtaaaccact gtactggtaa taaatcacat agatagatat 300
cccatacc 308

<210> 18122
<211> 413
<212> DNA
<213> Glycine max

<400> 18122

ttggaaaatg gtttctatac aaaagttatt tttttattgt gactaacacg ctcccccaaa 60

tttacaattt tgcttttctt caagcaaaga aagaacaatt cacttgtcct caagtgacaa 120
 agacagtggc taatcaaaag aaaatggtgt ttgattcatt aaggacatca accatatgaa 180
 ctgaatacca tggaatgctt aaatcaatta cttctcacia gcatgcagtt ttttcaaaga 240
 taagagcaca agtattagat tcatagctga aataagctag taagcatgac agaaatcatg 300
 gaaggatcat caacccaaat ctcacagtca ttgtttcact caaactcaag tgtttaggct 360
 tattccatca taaacaacca acacaagttc caacctttgc atgtcatctc cta 413

<210> 18123
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18123

cgacgttnnn ctcgattgat gcnctgacna ancaaggcaa ttaagcgcgga tcccgggagt 60
 ctaccggcga ccggattggt gcattctgag cgtgacctac cgaggggtggt gtaacaacgg 120
 tgatcactat acccggcgtg aaattgacag actttgacca tggcgggacat gctacaaacc 180
 ggactcataa cacgtactgc acgtggagcc taccaatgga gctatgggac tgtagcgaca 240
 atgctcccac tgcctattgt acaattgtga gacgttggtt gccacgtgga catatggacg 300
 ggccaacgta acataagccg agtgccatat gttctttgaa aagcgatcaa tacaatgtgg 360
 tatggctgga actcaaagac gaaaatattg gtaatataga acgaatgtgc ccctagccag 420
 gagtgtaaag ccgcctagaa ttgcccatag acg 453

<210> 18124
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 18124

tattgttttc gtgtgtaaag cgcactctgc tcactatatt agcacttgca actgcaaaat 60
 taacatgttg catactgccca taaaaagtgc agcataagcc atcccatatt gattgcagag 120
 atcaggctct ccaaaagggt tgcccttctg cttacatata gctggaataa tgatcatcga 180
 caggtttctt aaatttctg ttcatatcaa tctaaaaaat cagatcaacc ataaaatgca 240

tcaatcaact aatgatgcaa aagttcgatg ctctaataaa aacaatgatg catagcagaa 300
 ttttgcaaga tgtattctta gtctaagtgg aacttttgtg ggtataacaa gtctaacagt 360
 tggatggatt ttaatcaaat gaatcatgaa tggatcata 399

<210> 18125
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 18125
 tgcattgttt cttgttcacc aatcacactg gcagggtcaa tctgggttatt aacataaagc 60
 tatatccaac ttttagtaat tggagaataa gatcacacat taattattaa ttgcaattga 120
 aataatatct tacatatgcc atgcatgagg acattctgta tatggatgtg ccaaagtgtc 180
 gaggaatctt ttggaacaac atattctacg attagacaat gaggggtttg tgtcagcaat 240
 tccataatgg atacaaacag cagctcatgt acaacgaaga gaataaaatc agaattcctt 300
 ccaacttact tctggcacia agatccccct cctaa 335

<210> 18126
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 18126
 caaacatcat agtgcgatac aaatgtatat tcatatgtta cagagaagaa aacatctggg 60
 ggaaacaata caataagaaa gaatactaaa gaataacgga gaaaaacagt caaattacta 120
 gggttctcttc taaagagatt acagcagtcg gattcagtaa tcacagtata cgaatgaaat 180
 agcacccttc cccccagctg ctttaattag cactttatgc tgtaaatcga ccgactgat 240
 agcttggcat ggcattcata aggggcatcc atgcgataca cagctgtcaa ctcttctgac 300
 cctcataaac caacactagg aaatgtaagt gagggccata g 341

<210> 18127
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18127

ttcttataag aacaaaattg cctaaatcat ttccaaatat gcatgtgaat taagaagcat 60
caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaaag 120
attatgatga tggatggctc anattctcac aaaggtaaac ttatcacttt caaattgagc 180
tttcaaaact atcatgacat gtagaggaaa aacaaggatt tcaaatccca aaatgtcaag 240
agacttttat tttcagaaca attaccatt acttgaactt atcctataat tcaaagaaaa 300
acatgcaaat ttaacacaac aaaactaaca aaattaaact agaaccaaac aaaactaaca 360
naattaaact aattt 375

<210> 18128
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18128

taatgaccct caatctttca atgattatag acctatcttt cttatagggt gtgtctataa 60
aattgtggca aaagttttgg ccaagaggct ggccattgta ttacctcatc ttatagatga 120
aaggcagacg gcttttatga aggggagaca catccttcat ggtgttttga ttgccaacga 180
ggcttttagct gaggccaagt ctagaaataa accttgcatg gtcttcaaag cggattttga 240
aaaggcatac gattcgggtt attggggatt tcttgactac atgctcatga ggatgggatt 300
ctgtgaaagg tggaggaaat ggataaatgg ttgtctatcc actgcaacca tatccattnt 360
agttaatgga agcccatcta aggaatttgc tcctaagaga ggtctaaggc aag 413

<210> 18129
<211> 324
<212> DNA
<213> Glycine max

<400> 18129

tgctttttat ccaaggetca tcttggtggg gaagctcctt cttccatggc ttattcccta 60
gtggatgacg cctcctgtca cctcttctcc tttgtcttcc gctgcatctc catgggtggat 120
aatcaccatt aaaggacctc attgaaactc aaagatccag cctccataga agccccacaa 180
gcaagcttcc atcaaagtgt atgaatttta aaatccaatc ctacagtttc ttgaattaat 240

taaattcggtt attattgttt ctgtacattt atgtatttct gacacactaa attcgattat 300
 atttggtatc tcattccttt agtt 324

<210> 18130
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18130

tgttgccatt agaagagaat gagcatgtga ttggtattat gactggaatt gttagtcagt 60
 ttgccagatt gattgtgaag gaatgcattg accgtatccc ggtgagagtg tgatccttaa 120
 attttgagag aaatgactat catttaatac tgatttttgc atgaatcttt gaagtatgga 180
 ctgaatgcat gaaattgagg atgatgaagg ccatgtttga ttgggatagc cacttagcca 240
 cgtgtttgaa tgatttatcc ttgacaccta atttgagctg aatgaattat tgattgattg 300
 aaccctgagt ctatagagtg ttatctcttg ctaccttgac ttaagttgta ggagagcatc 360
 atccacagaa agtgtggttc aaagcaaatt tgtcccaaatt tttgcggagt aattat 416

<210> 18131
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18131

ttctttgatg tatgagaaga tgagtggagg gagagggaga gaaggggcac aaaatttatg 60
 catcaaataa ggtctaaact ttgaagtgtg atttcttaaa tgatcaaagt tgaaaaaatg 120
 cacacacaaa agctttatct atagcctaaa tgtcacacaa aattggaggg aaatttgaat 180
 ttctattcaa aattcacttg aatntgaatt tgtggagcca aaattttgct aattatgatt 240
 agtgaatttc agctatgggt cagcccacta atccaagatc aagtotaata ttctccacta 300
 agtgtgctta gatgtcacga gacatgtaaa gcatgaagga catgcacaaa gtgt 354

<210> 18132
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 18132

tgtaagatta tggggtaccc atcacatgtg gtactaggtg tcgggtcgggc gatggtgcac 60
aacaagtttt ccacatccac aaagcgtgct taaaccaccc atccccctgtt gccacacctc 120
aactgagctc acgtactccc acgtagccca taccctcgtt tctctcaaca ctgggtcccc 180
atcaatcctg ccaagcttcc ccaacatcaa agtaatacaa cattcaaaca gcacaagcta 240
tcacagccaa gcaaaacagg gcaaaggcag aaaactctac ccaaaacacc aaccaaaca 300
cagctttcct cacttaaaga cccagtaac aattccttcg ttccggttca ttaaccgttg 360
gatcgactcg aaaattntac tggaagtctc tagtacataa gcctacattt ggacc 415

<210> 18133

<211> 361

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18133

ttcttgtatt taccactaaa cttttaatct cagggtgcaag ctttccaaat ttcttaacct 60
tgctcccatg aaaggcccac tttaactcag catgttcctt gcaataatta taaataagta 120
tgtaaaggta attgaccaat aaaatttaag tacaatataa ttacaaatac aactacctct 180
cctgcccaca cttttgttgt cacatgatcc acatatatga agtaaacatt gatgtatctt 240
gaggcccacc tggaaaactc tgtgaatcat cacatacatc actcgtaact ggatcataan 300
ggctctcatg aggctcgtca acaacatgat tcatattctc aatatcctct gcaacagctg 360
c 361

<210> 18134

<211> 417

<212> DNA

<213> Glycine max

<400> 18134

tccatcaagt ggtatcagag cacaagagct tcatttatgt gcttcttaaa cctccattaa 60
ttttttgctt taccttttct tccattgttg tttcttcatt attttctcca tgtatctcct 120
cacatgtctt gtgctaaatg ttgttaacat gattctttta agtttccacc gattaaactt 180
gctataaaaag ctagatttga ttttctatgg ttcaaatttc ttgttcttgt tcttgaacca 240

tgaattgtgt tgagtttagg ttcctttgag ttttgtcttg ttattttttg tggctgaaac 300
 ctaaaacata aaattcttac aaaattatta aagtagaaga aaacctcaag aatctagagt 360
 gacttgttca cctattgtac gtttgtcata gaagtcattgt ctagtcattga aacttgt 417

<210> 18135
 <211> 375
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18135

tctttcttta taaattcatc actcttaata ttctgtacac aaaaacttaa atgatgttaa 60
 tttaacaatt attttctcag atgaaaaatt agaagagaat aattacaaat tcctctataa 120
 tttaaccccc aggatatatt catgattagc agctatcaaa ctcccgccaa tttaaattctt 180
 tgtgtgtcct caagcaaac gaaaaagtgt agagtttacc aatcacaatt catgagatga 240
 ctacatacan ttccaaaagc ttcatgtggtc aattctcaag tttaacaattg tcataagttc 300
 atgaaaggag tagaacaaga tgtacttcan atgaaatggt tagcaagaat gacaaatcac 360
 tatgaataat cacca 375

<210> 18136
 <211> 409
 <212> DNA
 <213> Glycine max
 <400> 18136

tgacctcatt tattcttcat aggattcgac agattctaag agaatgcctc tacaaaatag 60
 attttagaca cggagtatta aatgaagtct taaatgtcat atcaaatcat gattccatct 120
 tgctatcatt tgaacatca gatgcagact tcacgaaaca tgttctgata gcatataaga 180
 cataactttt aacctttgta tttgtttaca tttaatcaaa ataatacaagg gtcttggttc 240
 atcttttgac ttaacaatct ctcccccccc cccctcttt tttttatgtc aaacaaacac 300
 aaatttaaaa gttgaaggca aatttataag atttcacatt aaagtgttag tcagtcttat 360
 cagatgcaga aagtatatat cataaataga tcataatata tcataagat 409

<210> 18137

<211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18137

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atcttgaang tgtgtaaccc accattttcc atagtaaaat actggtaatg tgtctactat 60
cattgtcatc attttttcgt caatgagggtg ccacttgagc tgccaagttc tccacctttg 120
ggcgtattct ttgaaagatc cgtgccccct ttttgacat gttttgtagt tgcacccat 180
ccaaagccat tatactgacg cagcctaaca aaggcaacca ttangtcctt ccaagaatgg 240
actcgggaag gttccaagtt agtgtaccag gtaacagcta cccagtaag actttctttg 300
gaaggaatgn tataaaaatt cctcatcttt tgcgtatgcc cncatcntcc gacaatacat 360
ct 362
```

<210> 18138
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18138

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ttgatgatat ggtcttcacc gacgaaagga tcaatgtggg tctaaaaaga ggcaaacttg 60
atcatcatgc tttgataaat gccaaaaaaa aactagggca aatgaagagg gtgagaatga 120
gggagaagcc catgctgtga ctgccattcc tatacagcca agtttcccac caaccaaca 180
atgtcattac tcagccaata aaaaaccttc tccttaccba cgcgccagtt atcaacaaag 240
gatatcccta aatcaaccac aaagtctgtc taccgcactt ccaatgacga acaccacctt 300
tagcacaaac caaaaacacc aaccaagaaa tgaattttgc agcgagaaag cctgtagaat 360
tcacccaat tccagtgtcc tatgctgact tgctccata tctacttgat aat 413
```

<210> 18139
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18139

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cagaccacac acaaaagcac ggggaaaagg aagacaaaca acaccancac cgaaagggan 60
```

tggacccctg caacacaanc cnnaaggaac nngaccaagn gacagagaga acccaaagag 120
acaccgcacg agtttgccat accaggaaca ggaacaccaa gggaggaggg aacaaagaac 180
cccaacgcga cccccaaggg agaacacacc accacggaga agacacgcac aaacaaagga 240
gaacacgaga cacgaagccc cacccaacaa ggaaaaagcc acggaacaaa gaaccgccac 300
cccaacacga gccacggaaa agaagcaagc gacgacgccc caacggagga aaagacaaga 360
gggagacaaa gagagagggg ggagccacca caccgaaaga acaaacgacg gagagaagcg 420
caacacagaa acatgccgca caagaacccc cgcaacaaag aaccacacaa gaacacaagc 480
cacgacg 487

<210> 18140
<211> 430
<212> DNA
<213> Glycine max

<400> 18140

gacctataaa actcagcttc caggatggcc ccctgcattc agaacttaac ttctaccagg 60
gatgcagaga cggaagcaa actcttgagg atcaatcctc atcctcgtaa atctggaata 120
ggtaggcagt gtctcaccct cctctaaaac tattgggggtt tcaaagaagg tatttaggct 180
gtcagcatca atcttgatta agtgtcctga tgcaatccta ccccgcaagg gcattggata 240
gaaaactcca agtagattgg gccaaagatg caagagaagg ccctaggggtt cttatgagcc 300
ttagggtaga tttcggggccc atgggctaag tatgagccca cttatctttg taaatattaa 360
attaagggtt cattatTTTTT gggccttgca ttacggctc cataatgtaa gtaggggtacc 420
ctagaaatat 430

<210> 18141
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18141

tttcttggtt gagtaaggcc attagaagga tcttcagttg gcacgtatc aacatttcct 60
ctagtgccat cttctatttc aaacctggta ctagaagatg attccaaatc tcttgtttcc 120
acatgagcag taaagccttg ccaatctaaa ttcttgcaaa tggttccttg tgaacaaatc 180

taatcacctg atatctcaag tccgttgctt acccagctat taagttcana ttgttgagaa 240
 tgtacagtgg ggactacttg tcagcagcta gctcccaatt tctacatagt attaacatca 300
 ataataatat tctatgacgc tccaaccacg tccgttctca taagctgtcg ttgaacaaaa 360
 c 361

<210> 18142
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18142

tcaagaaaaa gatggcctca gcaaattcct tatttccaga agggaattct atcaatagac 60
 ctccaatctt taatggagaa ggttaccact actggaaaac ccgaatgcaa atttttattg 120
 aggcaataga tctaaatgtc tgggaagcca tagaaatagg gccttatata cccaccacag 180
 tagaaagaat tacaatagat ggtagttcat caagtgaaag cataactata gaaaaaccta 240
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacttaaaa gccaaaaaca 300
 taataacatc tgccctgnga atggatgaat atttcagggg ttcaaattgt aagagtgcta 360
 acgaaatgtg ggacactctt cgattaacac atgaaggaac ta 402

<210> 18143
 <211> 220
 <212> DNA
 <213> Glycine max

<400> 18143

ttgttttctt tcttatcaga cggctgtggg tactcgtcaa atcaataact gacggtagca 60
 acaacagcgg tgggtggctgc accgaagaaa gaaaccatgg gatccgggaa ccgcacaacg 120
 ctagcaagct gatctgggta ctctacaaat ccatcccaag ggattaagct atatgtttat 180
 aaggagaacg tgggtgctga tactgaaggg atgactcctg 220

<210> 18144
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18144

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ntgagactga tccttgcccc accactcttt gtatgaaatg tgatggtgac atgtgcaggc 60
aactgtgtcc taataaagtt ctcatctctc caattattca accttggaaat aaatgctagc 120
tgacagtttt tattctttcc ttgtttttt tccttgccct tttcctttaa ctcttttgaa 180
tttgatggat gaatgtatca ttccctgac tccttgtcta tcgtgtgcta tgattttttt 240
tctaccttga ggaaaaagta taatccacaa gacagtgatg gattttaata ctatttacgc 300
aattcatatg taaaactaca gctcttttat cactaaacaa tcactgaatt aaatttcccc 360
aaaagaaaaa agtgacatta ctattagctt aatcatgtca aat 403
```

<210> 18145
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18145

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ttcttgcttg tggggcttct atggaggctg gatctttgag cttcaatggg atcctttaat 60
ggtgattttc caccatggag atgcagcgga agacaaagga gaagatgtga gaggaggcgc 120
catccattaa ggaataagcc atggaaaaaa gagcttcacc accaagatga gccttgata 180
agaagcttgg aaggatgctt caatggagga aaagaaaaga gggagagaaa gagagagggg 240
ggagcacgat attgaaggaa tanaggaggg agagaagtgg aactttgaaa gatgtctcac 300
aagactctca ttcatcanag ttacaaccag tgttacacat gct 343
```

<210> 18146
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 18146

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tgccgccacg gagttttccg actattctct tgtgtggtgg aacaagctac aaaaggagag 60
agcatgatat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120
gcggtatgtt ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccba 180
aggcaacaag ggggttgggg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
```


tattgaagaa gatgaggagg taactatggc tcgatttctt aatgggttga ctaatgatat 300
 ccgtgatatt gttgagctgc aagagtttgt tgaaatggat gatttgcttt acaaagcaat 360
 ccaagtggag caacaattaa aaaggaaggg agtggctaag aggagt 406

<210> 18147
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18147

ttcttctata taagctgaac cattttatca ataaacacaa gttgagtttt attcagaaaa 60
 ttagagttaa tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
 gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180
 agtgattctt tccttcttat catctccacc cttgttcttt caaaccacaa ttccagaaaa 240
 tccacctctg cccaaaatta tctcgtgacc ataactccca ttccacacac tcaaattaag 300
 tgattcttga ngcctaaatg aatntcaaaa cgagaccttt cacctcgttt tggaatcacc 360
 tcatttg 367

<210> 18148
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18148

tcctctgccg taaaaaagat attatcgcc agtgtttgtt aaaaaattgc gcaatgtcgg 60
 ctgaaaaata tccgtcgggg ctatttaact accgatgtcg gctattgttt tttctattcc 120
 acccctgaat tatatttgga tgatgcctat taggaaatgt tcggtcgggg tcatccggtc 180
 atgcttcttt ttgaggcctc gatctgtcgt ctttcctagc cggccgacgt cggctagcat 240
 ttttttcgat caatatctgt gtgaatcatg tttttttttg ccaaggaggg ctaatgtttt 300
 cgtggccgac aaaatgaaaa catgccagtg tcggccgaaa cacaatcccg caccgaaaaac 360
 cctaaccgac ctacattgta attttttcag gcaataccga acgacaaaaac ttc 413

<210> 18149
 <211> 351

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18149

ttcntcaact gaatttaciaa cgttccaatc aattttaaatt ggtgtaatcg attacaatat 60
attggtaatc gattaccaga gtgtttgaat gttgaaattc aaattcaaatt gtgaagagtc 120
acatcctttc acaaaaatgc tttgtgtaat cgattacaatt gatttggttaa tcgattacca 180
gtgatatggt ttgaataaaa atcaaaaagat gtaactcttc caatggtttt caagtttttc 240
taaaagttat aactcttcta atggttttct tgaccagaca tgaagagtct ataatagtaa 300
gatcttaact tgcgtttttac acacattgaa tacattaatt tcaatccttt a 351

<210> 18150
<211> 415
<212> DNA
<213> Glycine max

<400> 18150

tgttcatcat ttatattgaa tttatgcttt tctatatgac tctctaagcc actacgctta 60
ggcttagcga gtgttttaaatt ttccagtttt acttctaagt ttgtataaac ttgcttaggt 120
ggcatgccgt gctcagcgag ttagtttagt taggtcagaa tgtttgaggg ttttgggtatt 180
ttgttggcgg ctaagcgagc cgcgctcgct aagccaccat gcctctgagg tttgaataag 240
cttgggctaa gcgagtcagt ctgcgtaagc ccaaggcaatt ttagtggtct gaaattttgt 300
tcatgcacta agcgagtcatt gctcgtaag cgcaattttct tctctgtctt tgaataaggg 360
ttagcgagcc agactcccta agccaattat gttctagtggt tcaagttggg ctaag 415

<210> 18151
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18151

ttcttgcagc gcattttctga tgaactttac cagaaattgc ggtaggaggt cccaagactg 60
ggaagctccc agtgaagggt tctgcctttc ttacagctga aggatcatcc agatcaagcc 120
ttgctataag ttcaccagcc tgcaaaaagggt gatacaattt tattatcttt ttcaatttca 180

acaattgtac ttcctatgtg gaatagaatg ctatatacct gcattgcttg accttcagac 240
 attttgaaat gaataatccc agaagcangc gaaagaagag gcatgcacat tttcatgacc 300
 tcaacttcag catacgggtgt gtcagcatca acatgact 338

<210> 18152
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18152

ntgaagtgaaggatgtgac ttttcacatt tgattttgaa tttcagcgtt caagggcact 60
 ggtaatcgat taccaaaaca ttgtaatcga ttacagcttt ttgaaaataa ttggaacgtt 120
 gtaaattcag tttgaaaact ttttcaaact cattttgcta ctggtaatcg attacaacaa 180
 tctggtaatc gattaccaga gagtaaaaat tctttggtaa aggggtttttt caaaaactca 240
 tgtgctattc aaagttttga aaaacttttt aatacttatt ttgattgagt cttctcttta 300
 ttcttgaatc ttgatcttga tttttgagat cttgaacctt gaatcttgat tcttgtctct 360
 agactttctt cttgagtctt gaattgttct tgatttttat cttgaactct tgaa 414

<210> 18153
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18153

atctttgttt gcttgaaaag ttttcagtcg cattagctaa gactgacaaa tcgaaagttg 60
 gtaaataat ccctttcatt ctctttactt ttctgaaatt ctgcttgga aaatttcttg 120
 caaccctga tacgttgga aataagactt aaaaccttg caccttatat gcacattttt 180
 tagtgcctaa tttcttgtaa tagatgctaa ataatatgca tatacatacc tggattttta 240
 attatccata tccacacata tatgattatt aatccaaaag tagtcacacc acagtgatng 300
 ctactgtctt tatcttgagt ttctatgggc actgtatatg at 342

<210> 18154
 <211> 422

<212> DNA
<213> Glycine max

<400> 18154

tgttgatttt agcgttaagg atgagatggg aattgaattg taagatgcat agcaaacaaa 60
caaacaaatc ttttaattata taagagtaaa aaatcaagaa tatttttttag ttgcttaaga 120
gggacaaata cagcaaacta gaagcaacaa gtaacacatc acataccttt ttctgacttg 180
atccccgagg agtgcaaagc aatgtcgggtg atgccgggtg cggaagagtg gaggtggcat 240
ccatagttga tgggttgagt tagaatgttg gaattaaaat tggaaagaac ccaagtgcaa 300
gtagaagaag agtctcaaaa gtcaaaactc attaataaat aaagcatcat catttgatga 360
tcattgcatt tgatggccta tatattgtga taactcatac tcattaatta ctagatcatt 420
tt 422

<210> 18155
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18155

ttttcaatat aacaataatt tttctctcgc ttttattcat tatatataaa tgaagaacta 60
caaaatttaa aaataaatta ataatgggtg aagattaatt tataaaaata atattctttc 120
atttatttat tattttttct tgggtctatat anaataactt aggatganaa ttatattatn 180
taaaaataaa catatttatt ccgtagcata tctattacaa aatcaatttg gattaaccct 240
aaattgttca aaatatggta gagaa 265

<210> 18156
<211> 417
<212> DNA
<213> Glycine max

<400> 18156

tgtacgtgat gccaccgtga tctgccatcg cgtttatctg cttcccaaca cgggtgctggc 60
gtgcatctac ttctcacgga cctccgtcgg actggcaacc ctctccatt ggccagtggc 120
ggggctcgagg accaggtgtc agcgacgtag ccgccgagga catagatctt gtcgtggagg 180

actcccgagg cggaattc gcagccaacg cgcattggagg gacgaccgtg gagctagtgg 240
 ttgaagcgga agtcgaggag ccaaatgttg ggggatggga cgatggggac agccatggcg 300
 gtgacaacgt caacgacctt aatggcagcc ttctagagaa cgttgccgga gacattgctt 360
 cgtccctctc acaaaggcta tggaaacctt aaaggggagt aaagagagag gggaagt 417

<210> 18157
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18157

tcattcttct atataagctg aaccatttta tcaataaaca caagttgagt ttatttcaga 60
 aaattagagt ttatctcttt tatcttagtg agagtgatcc tcctaaattc ttgagtgatt 120
 caagaacacc ttggctgtat caaaggacct tcacaacctt tgtgtgttgc cctcgctgga 180
 aagagtgatt ctttccttcc ttcatcatc acccttggtc ttcaaacca caattccaga 240
 anatccacct ctgcccagaa ttatctcttg gccataactc ccattntacg cactcaaatt 300
 aagtgattct tgagccctaa ttgaatttca naacgagacc cttcacctcg ttggggaatc 360
 acctca 366

<210> 18158
 <211> 414
 <212> DNA
 <213> Glycine max
 <400> 18158

tttgcttggg agaaagaagg acaaccttgt taaatgcctc aggctatagt gaacttcaca 60
 gtgcaaagtc ttggtgattt gcttattcaa gaaggatgat gatagttcat aggcctttat 120
 tggtaaactc gacatgtcca tctatttgcg actacattta aatgtacact taatattctt 180
 tcatctgcat ttcccttgcg ttaatatggg ggttggtctt ttcagatgat ctttttattc 240
 ttactaagtc gtattataat gtcttaatca tgttttggtc aagtcacatg cctcaagtca 300
 atctgacatc agtagtctcc aaaacttagg ataaaatatt cttaaaacgt gggggataaa 360
 atagcaagat aaggggtgag aattacaatt ccctaaaatg gttgggttag ttat 414

<210> 18159
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 18159

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ttgcagatTT ggtcttcgcc agtgaaatgt atattgtggg tccgaaaaga ggcaaatgcg 60
atcatactac taggacgact gagaaaactg gggcaaataa agaggggtgag gatgagggag 120
aaacccatgc tgtgactgcc attcctgtac ggccaagttt cccaccaacc caacaatatt 180
tttactcagc caataacaaa ctttctcctt acccaccacc cagttatcca caaaggccat 240
ccctaaatct accacaaagt ctgtctaccg cacttccaat gacgaacacc accttttagca 300
caaacaaaaa aaacaccaac taaaaggaat tttgcagcaa aaagcctata gggttcaccc 360
caaattccgt tgtcatatgc taaacttgat cccatatcca ctcaataatt caat 414
```

<210> 18160
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 18160

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tcaatctttg aatactccag tcctagtcct agaggaccat ccaatgctcc tattcttttt 60
gccttcaatc tctctctcta cccaaaatac ctaaaaacaa gggtaaagaa tgaagagagg 120
ggaaaaaagg tcatggttca aattctttgt taaccaaatt taataaatta ataaattaac 180
aattaatatt tttttttttt ttaaaaaaaa aactatgaca tgttccgtgt atgtaatcaa 240
tcaccaaact tagttgtact cattttaatc ctgactgtgt ggtctatcca acaagctagg 300
ctcatcaaaa tgggaccagt ttcttgaaac aaactgcac ac 342
```

<210> 18161
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 18161

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tcttgccttt aatcctgtga gtgtttaatt taatatgctc atttttttgg ctgttctagc 60
tgcttcagca ttttggttcc tcattctgc catggtatag tggccaata atagataatt 120
catgtacttc ctatcaaatg caggaaaaag ttaacgtgta tggaggagct gtgtcattgg 180
```

ggcatccctt gggttgcagt ggagctcgca tcttagtcac attattaggg gtaacttgtg 240
accttgggta ctttgtatat cttttcttt cacccttggc acacaaattc ttatacttct 300
ccagttagta ttcagtatgc catgcagctg ttatccatta cttttataa tcctggcttg 360
attgctacac tttccagatt attgtgatct gtggatatct c 401

<210> 18162
<211> 300
<212> DNA
<213> Glycine max

<400> 18162

catttttttt gtttgggggc ttctatggaa gttggatctt ttgaacttca atgaggtcct 60
ttaatgggtga atttccacca tggagatgcc gccgaagaca aaggagaaca ggaagaggcg 120
gggcatccc ctacggaata agccatggaa gaaggagctt caccaccaa atgagccttg 180
gataagaagc ttggagagga tgcttcaatg gaggaaaaga aagaaggaga gaaagaaaga 240
ggggggcgca cgatattgca cggattaaag agggagaaaa gtggaacttt gaagatgtct 300

<210> 18163
<211> 307
<212> DNA
<213> Glycine max

<400> 18163

tccttgagaa tctagagtgg ggctactgac atttctgcat tagctaagct cacctcgatg 60
ccaaaataca tgaaaataca atgggaaact tccttgagaa gcaaggaagg tagcttcctt 120
gggaaaaaaaa ggaagaaagc ttctttgaga agctagaggg gggcgactga ttgaggccgt 180
acccgaatca aataaacatt aaaaatgcag tatctaggaa gtgatactag gtcgtctccc 240
aatgagcaat ggtcaagcaa cgtttataat agatagtgat aaaacagtaa cgaatggggg 300
ggggtgt 307

<210> 18164
<211> 258
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18164

gctaaccat ggaagctcct aatatctccc acactttttg ggggtggcca ttcttggaag 60
gacttgatta tctcaagttc cacttggacc ccatttctac caactacgat acctaagaaa 120
actatattat ctacacaaaa ggtacacttc tctatatttg catagagggg gttttcctaa 180
ggacagaaat aactttctga tatgtactaa tgatctttan gctcctacta tccctaaaat 240
tcatcaaata acaacaca 258

<210> 18165

<211> 405

<212> DNA

<213> Glycine max

<400> 18165

tcatgctcaa gtatgtatgg caaaacttat aattgttggt caagacatac aagtgagctt 60
gttacaaatc ttctacactt ggagtgatga catgcagtc tcttgaacct ttaccaccga 120
ctatgacctc atgccaacac tcaagacggc caagacgtat atccttctca atgtagactc 180
aacaagagtc aattgctact tctgcgcata tacctgtgaa caatagatgc ttctggatga 240
tacaaattct ttatgtatcc ttttaagatc ttcatgtatc actcaaccgg gtacatccac 300
cgcaaataaa caagaccaca acatttgatt tctctgacca gatgcacact caagtgaatc 360
atgatgtcaa agatggtagg gggaaaatac atctccaact ggcat 405

<210> 18166

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18166

cgaccagggg actcngtgca tcgccnnaca ntnggntatg naccggccat cccgggattc 60
tattagtcca cccgcttcat gtcttcttag cnatattnnn aaggcatggt tcaattgttt 120
ggttgccctt tatgattatg gttaatcatt tttctgtgac ttagatcact tgttatgtga 180
tgtttgatga agtaagaacg cctgtcata atgcgtggac tgactcaatc tgtaaggtta 240
tcctatgaat gaaatgatgg gtcttctctc atgcaatact atattggcct ctttatgtag 300
ctataacttt tggccttggt ggccaaaagg cgacgcacgt ttctttgaag aacctacatt 360

gatacttctc aattgattag gatatgaaca taacttgacc ttcttttagg ctcaaacctt 420
acgtc 425

<210> 18167
<211> 407
<212> DNA
<213> Glycine max

<400> 18167

ttccgatata tatattgcc cacctattct agtttggtta ttatagtttc gatcatactt 60
ttcctcaatg cactgattct tctttgaggt tgtagctttt tctctccctt cataagccaa 120
gaaatatgta atataagaga gttatcggtta aggatatcaa catgccaaag ataaccctgc 180
aaagaaaaaa tacaaagagc aaatgttaat atgaatgtta atctatactt gcattgggtta 240
tgaaagttaa tatgaaagca atatcttaca tcgtgaataa cgaaaataac attaacttga 300
cttaatttga cctaaaggat cactagaaag gtagtctaca tatttacgca tcacatggtg 360
gggttgaaag cccgtgcacg atcaagtttt gctagaaagc attctct 407

<210> 18168
<211> 333
<212> DNA
<213> Glycine max

<400> 18168

tttctttgag ccaattctaa cgataataac tttttactcg gatgtccgat tgagtcccat 60
aatatatcga cacgctcgaa attgaatgtt gaagctctga gccagatcaa acaacaataa 120
ctttttactc ggatgattga tagagtcccg taatataacg agacgctcga aattgaatgt 180
tgaagctctg agccaattca aacgacaata actttttact cggatgtctg attgagtccc 240
gtaatatatt cgagacgatc gaaattgaat gttgaaccta cgagccattt aaacgacaat 300
aacttttact tgggggctga ttgagtccga ata 333

<210> 18169
<211> 397
<212> DNA
<213> Glycine max

<400> 18169

taaacattca atttcgagcg tctcggtata ttactggact caatcagaca tccgagtaaa 60
 aacttattgt cgtatgaatt ggcttaaagc ttaaaccattc aactttgagc gtctcgatat 120
 attacgggac tcaatcagac atccgagtaa aaagttattg ccgtttgaat tggctcagag 180
 gttcaaaatt caatttcgag cgtctcgata tatttcggga ctcaatcaga catccgagta 240
 aaaagttatt gtcgtttgag ttggcttaga ggttcaacat tcaatttcga gcgtcccgat 300
 atattacgtc actgaattgg acatccgagt gaaaagttat tgacgtttga atttgctctg 360
 agcttcaaca ttcaatctcg agcgtctcga tatatta 397

<210> 18170
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 18170

ctgcatcttc ttataagctg aaccatatta tcaataaaca cgcgttgagt tttattcaga 60
 aaattagagt ttatctcttt tatcttagtg agagtgactc tcctaaattc ttgagcgatt 120
 caagaacacc ctgcctgtat caaaggactt tcacaacctt cgtgtgttgc cctcgttcga 180
 aagagtgatt ctttccttcc tttcatcttc acccttgttc tttcaaacca caattccaga 240
 taatccacct ctgcccagaa ttatctcgtg gccataactc ccattctacg cactcaaact 300
 aagtgattct tgagcctaaa ttgactttca caacgagacc tttca 345

<210> 18171
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 18171

tcgccggatg atgccgatcg atcatttccc aatttacatc ttccactaat tattcacgga 60
 tcgaatagaa taaacaatgg ccggtgtcgg tcgctatatg gccccgactg atatccttca 120
 gccgacattg cgcaatttct ttacaaaaag ctggccgata atgttttttt acgtgagaag 180
 aagttctttg tttttggatt ccctacaaaa ttctacgatg tacgtcggct aagtttatcc 240
 ctgcgagctc aaccaggtt gtgattcgga cgacactggc atggtctcat tcattaggcg 300
 cccaaaacgt tagcccactc cggcaciaaac aaacatcatc aacggagatt gattaataat 360

aatgataagt gacgtcggcg tggacagatg accgatcgag ggctctacat gaagcat 417

<210> 18172
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18172

tttcttgctt caatctagga actgtatttg ccccttttag aaggcacata aaaatctttg 60
ggttgagaat tttccaagaa aaataaggca aagaccocaa accttagaag cccaaataga 120
aaccaggatc ttagtttcag ccatcgcaat ccatgcaatg caaaagattc tatctttggt 180
aggcaacaca gtcatagtag agtgtccatt tcacatgtag ccaaaacaag ttcaattctg 240
atgttntgga ctgtgtcaac tgatgaatga tgcaaaaacc attagagggtg gcactcttan 300
gacccccaaa gttacaacca tgatattgtg atgagtcaat cacgtgtcat gcaactaggt 360
tgaaaaataa tgc 373

<210> 18173
<211> 427
<212> DNA
<213> Glycine max

<400> 18173

aataactcaag ctgttgactc tacctgagtc agtggtcctt acccttttat ttcattaaac 60
aacaccctca aatcctatca aaattctggc cttattttgt tatctgtgta acattactta 120
tggttgaaatt actgtttaaa gtaaattatt tgatagtgtg caattttagg gtaacctgtt 180
caatttctaag tctctatcag gattacaaat aaaagcaagt catttatgaa taatccttat 240
ccttactact ctaaacaatga caactacaca agacaagttt cattgaccac tacttttact 300
agaaatcaaa gccttgaatt ctggagggtac aaaagtcgaa aaatcaatgc ttcatattaa 360
gttttttggt gtcaccacca agggtagaat aacatttact catgattata attaaaataa 420
tgaataa 427

<210> 18174
<211> 340
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18174

ttcttctggt atcttggaat ttaacatagg agcattttga ttacaaattt acaatctcga 60
ggaatttact gaggtgaaga tgatatatgc agtacgattc acttgcaaaa taatctagat 120
gaaaacaaaa catattgggtc ctaaaaacta aaccatattg attttctggt gtgaatgcaa 180
tcaattgttt aaatatcatt cttcttaatt gttttttatc ttaaaattgc atgggttacta 240
gtctatTTTT gtgaaaggct aaggaaaatg gttactagtc tatgtaagat tangagttta 300
ggactgtcat natttctaga ataacatttt gcaattgcta 340

<210> 18175

<211> 385

<212> DNA

<213> Glycine max

<400> 18175

tgccaccag ctcaccag caagcaagg tgccttcttt ataacaaccg ccttctggag 60
gaagaatctg gaatgcccaa gtgggcttga ttgctatttg taccctcctt tttactaaat 120
gtaccctctt ttaccttttg tgggtattct tttccgtaa cgttacgaaa ctttatgaat 180
tttgtaacga tacttatttt ctttccgtaa ggtaacgaat ccttactgat catgtctata 240
ctctttttta gctgtcgaag aagtactga aactcacgga ttgcgcaaca acacctcctt 300
ttggttttcg ccacattaca gaatttcacg gatcccgtaa ccctgtttcc ttttgatttc 360
cggcgcgtct catgacttac atatt 385

<210> 18176

<211> 329

<212> DNA

<213> Glycine max

<400> 18176

atcttcttaa cggttctttc tccgccatca tccctaaccg aagaaaaaag gttggattta 60
aaaagaaaaa ggaaaaatag agggaaagag gaagggtggt tacatacgga gggttgattc 120
cgttacgggc ggggaggag aaggacttct tttgatggcg tttggtcttt ttgttgatgg 180
aggaagcttc agtgctgctc attcttcttc ttctctctgt gtttcgatga atgaatgtta 240

atcagatttc ggcgttaaatt tttttctgtg tgaatgtgcc aaatttttat gatcctcttt 300
ctctctctct tctcttcacg caaatcacg 329

<210> 18177
<211> 419
<212> DNA
<213> Glycine max

<400> 18177

tgtgatgaat gcaataactt agtcgttagt ttatataggc tgcaaaatca aattaataat 60
ttatgatttt ttttaatatc aaacaaattc acctaagttg cgtgagtatg tgcataaagc 120
caacaggact gtgcaaacgg atgaatttgg ataattttta ttgggtcatc agcaaagtga 180
cagttagata aagataaatg ggtgctttcg atttcttcac gcacacatta tatatataaa 240
tatagagtgg gattaactca ctcatattat aattttaaag gaattatttt tatcttaata 300
atttattttc ttaaaattta atgattaaaa ttggttattt gttataaata ttagatttta 360
agaaaataaa tgtttagaat gaagagtaat tataagagtt attcttgaaa taagtttat 419

<210> 18178
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18178

gatgatgatt gcatgatcct tatgcatctt tgcttctcat gagaaattca gaaatatctc 60
ctttgttgac ttttaaaagt gatttttagaa gaatagatcg caaaaagact cataagagag 120
aanaaacaag agagggtatt tatagatntt natgatnaaa ccgctataat cgattaccaa 180
atcttggtat tgattatttc aatcaaatac cctttgtttg catttccagg atcgtggtat 240
caattacacc aactagtaat caattatatc aatcaacaaa gagcaaacaa aactcttttag 300
aagtagttgt aatcgataac tgaaagtggg atcaatatct cgatgtatag agtttctt 358

<210> 18179
<211> 413
<212> DNA
<213> Glycine max

<400> 18179

tcttagtttc agatgatgca gatgagtttg tggctacctc atgcactcct ctaatgacta 60
tagcatcatt tctagcgcta aactactggg agtttgaagc catcttctta attaaatttc 120
tggcttcaac aggagtcatg tctctaaggg ctccaccact ggcagcatct atcatacttc 180
tctctatgtt attgagtcct tcataaaaat attggagaag aagctgctcc gaaatctgat 240
ggtagaggga actgacacat agttttttaa atctctccca gtattcatat aggctctccc 300
cactaagttg tctaatactt gaaatatcct ttctgatggg tgtgggcctg gaagcaggga 360
aatctttttc taagaatact ctcttgagat catcccagct cgtgatggac ctt 413

<210> 18180

<211> 361

<212> DNA

<213> Glycine max

<400> 18180

tcattctttt tggagtagaa acatgggacc aactcatttt atttcaaaaa ggaagtcgta 60
tctagtcaag gtctgagaga ccatacaagt ttcctaacga tttctaattc tgtgggcat 120
taagtctatc atatgctgac aatagccgag aagcccatga atctcttcgg gggcggagta 180
agtgtctgcc atcgcccttg ccttggttaa caatcgggga agttcttgac tcccgttcaa 240
ggtaagagca aacogatcca tccacatggt tgccctcttg tgtaagagtt gatcacctt 300
cctctagcct ctttttcgcy tataactggg catattcgct cgcaatccta tgctcgtggg 360
c 361

<210> 18181

<211> 412

<212> DNA

<213> Glycine max

<400> 18181

tatgctgcaa acattacaac agacctctc aatttcagca gcaaaatcaa ccacagcaga 60
acaattatga cctctccagc aacagatata atccccgatg gaggaatcac cctaattctca 120
gatggcttag ccctcaacaa caacaacagc agcctgctcc ttcctttcaa aatgatgctg 180
gcctaagcaa gccatacatt cctccaccaa tccaacaaca gcaacagccc cagaacaac 240

aaacagttga ggctcctccg caaccttccc tcgaagaact tgtgaggcaa atgactatgc 300
agaacatgta gtttcaacaa gagaacagag cctccattca gagcttaact cgccagatgg 360
gacaattggc tacacaatta aatcaacaac agtcccagaa ttctgacaag tt 412

<210> 18182
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18182

ttcttgcttg tggagcttct atggaggctg gatctttgag cttcaatgag gtccttcaat 60
ggtgattttt caccatggag atgcagcggg aggcaaagga gaagaagata ggggaggcac 120
catccactat ggaataagcc aaggaagaag gagcttcacc accaagaatt gccttgata 180
agaagcttga agaggatgct ttaatggagg aaaagaaaga gagaaggggg gagcacgana 240
ttgaaggaat aaaagaagga aagaaatgga actttgaagt gtatctcata agactttcat 300
tcatcaaagt tacaacaagt gttacacatg cttc 334

<210> 18183
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18183

ttttcaaagt caagtttgaa aatcatgctt gggttatttt tgaatttagc ttcagctaag 60
acctcattag ctatcattac accatggagg atatgtctgc ctttgaggaa agcaatttgc 120
acagaactgt atctttcaag tgactttgga tagggtaagc actaatctca tccaagaaag 180
ccacagttac tccctoctca tgttcaaata ggtgtctcct ccatttcaaa tcccatctcc 240
aaatattctg gtagaagcta cccatggttg aaataagatc gttctgctgc ttactaatgg 300
tgaagagcta agggtatattg tgatccagac tgcagccctc tcccagccaa ttgtctttcc 360
aaaatcgaat tttatcccca caacctgcct tccacaccag attntgatga ataat 415

<210> 18184
<211> 521
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18184

accacgcgct acgcgaagga ctacgcgaga cgccgacgag aattggataa acgaaacaaa 60
ccacaacaca agannagagt gnattgatga cgtcgtagga accaccagan gagcgaaacg 120
agccccgcac cgggagatcc tcaaaaagca cagcagcagg catgcatgct taacaaggag 180
gtctaaacca aacaacccaa cggaagaaaa gaagctggac ccagcccca aagggaatgc 240
aaaaaggaga cacaaagtga accaacaaca accacagcat aacgatgcag gacgcgcagg 300
aaatacaccg acatgcaaag gggaggggga aagcaaaacc caaagggccc aatcccaaag 360
cagcagccat tactacctct cagctgagaa gaaagagccc tcaggggaagg aagggacgag 420
gaagaaaaaa cgccaacgta accagcccac caccacacga ggaggaaacg gaaaaggcac 480
aaaagagaag agagaaccaa gaacgaaaag aacaaggagg g 521

<210> 18185

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18185

agcgaccnat aaaactcagc tnacggagca ctaagaccga gcggcgatat ccctaagttc 60
taaacaccga agaatccgaa agggccttac cttactgact caggtccaac ccctaaaata 120
atTTTTgcac gcatacactg ctgatgaatc atacaatacc cacgacctca cactcgtggt 180
gcaaacacgt ttaacacatt gcgatacaat ataacacttt agactcctaa ctaggaatcc 240
tacacttadc ctttaacatt gcgcataaac acttgtctca aggtaaacac gagacaggat 300
atcgaataat tcacaagcta caatacaaat atcggcacat caagtgcgac ccaccactaa 360
ttcacacca aattgcatgt ctacacacta acatat 396

<210> 18186

<211> 334

<212> DNA

<213> Glycine max

<400> 18186

tcttgcttgt actcacatcg ttcgcgtgta tgatatccac tccacaaggt ttgaagtata 60
ggagagcttc taccctataa cgcaacgtgg cggacaaaag tgggcaataa acttgaatga 120
tcgtcattgt caatgctgaa ggtattctgc gctacactat ccatgttcac acattattgc 180
aactcgtggg tacgtgagca tgaactacta ccactatata catgttgttt atactaacga 240
acacatctta aaagcttact ccgcacaatg gtggcctctt gggaatgaaa gcggctatta 300
ctccttctga tgacacatgg acacttatcc ctga 334

<210> 18187
<211> 412
<212> DNA
<213> Glycine max

<400> 18187

tggattgcag atccagtgca ctcaacatat tcatttttat ctacaatgac cgcaaaaaat 60
tctgtgggat tgagtaacta agaatcacca acaaagttaa ttagtttatt aatcaagtac 120
ttttttttat caatttataa atacatacgt gttgcattat taattaattt aatacttact 180
tctaaccact cttgagctcc tgcaggctcc catgctgcta aaccaccttt tttactctgc 240
aataaaaaaa atgtgggtta gttaaaaata aatgtggtag taaaagtaaa taaagcatca 300
atgatcaaag tcctttgtca accctaactt attattgatc aaatattaag taacaaagaa 360
aaggggccat tagttgattg atgattgggt aattaaaagg atatggacat aa 412

<210> 18188
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18188

tttcttctta tccaaggctc atcttggtgg tgaagctcct tcttctatgg cttattccct 60
agtggatggc gcctcctctc acctcttctc ctttgtcttc cgctgcatct ccatgggtga 120
aagtcaccat taaaggacct cattgaagct caaagatcca gcctccatag aagccccaca 180
agcaagcttc catcaagtgg taatcagagc acaagagctt caagtaggtg ctctntaaac 240
ctccattaat tnttttttct tttaccttct cttccattgg tgtttcttca gttttctgca 300
tgtatctcct cacatgtctt gttctaaatg tntgtaacat gatntcttag agtttccacc 360

ga

362

<210> 18189
<211> 413
<212> DNA
<213> Glycine max

<400> 18189

ttgctgattt agttttcacc gacgaatgga tcatagtagg tatgaaaaga ggcaaattta 60
atcatcttgc ttggatgaat gagaaaacta gggcaaatga agaggggtgag aatgagggaa 120
aaacccatgc tgtgactgcc attcctatac aaccaagttt cccatcaacc caacaatgtc 180
attactcagc caataacaaa ctttctcctt acccaccacc cagttatcca taaagggtcat 240
ccctaaatca accacaaagc ctgtctaccg cacttccaat catgaacacc accttttagca 300
tgaacaaaaa caccaaccaa ggaaggaatt ttgcagcaaa gagcttatag aattcacccc 360
aattctggtg tcttatgcta acttactccc ttatctactt gataatgcaa tgg 413

<210> 18190
<211> 274
<212> DNA
<213> Glycine max

<400> 18190

aggcaattca gctcgggtacc cgggatctct aagcaccgca gctgcttctt tgctgaggggt 60
tatattctaa tttctaacct tctatgatga agatggcaaa tctatacagg gaaacaaaaa 120
taagtacctg ttagtcatca tctacaacta acttttgtat agaaaagctc tatacaactg 180
tttatcgttt cccaattta tgggtctttt cgtaagtttg tacatagttt taggtttact 240
ttaattttgt taattagaaa taccacaacat tgtg 274

<210> 18191
<211> 411
<212> DNA
<213> Glycine max

<400> 18191

tcatgatgaa tcaaaggtga ttcaaaggtg tttagatgat aacaatagtg acaacaaagg 60
tgatgaacaa aaagctcaaa gatcaatcaa agaacaactc aagtgaatca agaatatct 120

caagtgaatc aagaacaagt caagagttca agataagaat caagaagaat tcaagaactc 180
aagaagaaag tctagagaca agaatacaaga ttcaaggttc aagatctcaa gaatcaagat 240
caagattcaa gaatgaagag aagactcaat caagataagt attaaaaagt ttttcaaaac 300
tttgaatagc acatgagttt ttgacaaaac cttttaccaa agagttttta ctctctggta 360
atcgattacc agtagtaaaa tgagtttgaa aaagttttca actgaattta c 411

<210> 18192
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18192

atctttgtgt tatcgattac actgatttgg taatcgatta ccagtgatag tttctgaaca 60
aatcaaaag atgtaactct tccaatagtt tttcaagttt ttctaaaagt tataactttt 120
ccaaatgggt ttttaagtttt tctaaagggt ataactcttc taatgggtctc ttgactagac 180
ttgaagagtc tataaaagca aggctntgag ttgcatttta tttttcattc attctttaga 240
caacaaactt ttgccaatg atttctgaat ctctttgaac tccttcttct tcttcctttg 300
ccaaaagctt tcttaaagtt tctggttttc taaacctttg aaacaaaact tgtgctattc 360
atc 363

<210> 18193
<211> 419
<212> DNA
<213> Glycine max

<400> 18193

tataagtaca aaattgccta aatcatttcc aaatatgcat gtgaattagg aagcatcaac 60
gagaattaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaaagatta 120
tgatgatgga tggctcaaat tctcaciaag gtcttatcac tttcaaattg agctttcaaa 180
actatcatga catgtaaagg aaaaaaaagg atttcaagtc acaaaatggt aagagacttt 240
tattttcaga acaattaccc attgtcgcaa cgtgcccttc gcgggcgagc gagggcgagg 300
ctcacgggtg cgctttccaa aggaggaaag atgcgcggag ttgccaccaa cgtttatttg 360

tgggaaacgt tggaaaaacc gaaagaaacc ggtcaaatg aaaattctaa gttcggggag 419

<210> 18194
<211> 229
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18194

ttcttggttc ccanagctct gatcaagctc tcgcacaatc tagaggtaaa catatgatct 60
ctatcataca ctgatgcaat cctaccacc accggtgttg aatagataat tccaaaaggc 120
ttgagctaca ccttactaga caggccctac ggttctcatg aaccttacgg cacattttag 180
aatccatggg tcaacgatgg aaccacttct ttttgcccat ctaccaata 229

<210> 18195
<211> 398
<212> DNA
<213> Glycine max

<400> 18195

tggtagattt ggacattgcc tgtgaacgga tcatttttgt tctgaagaca aggcaaatta 60
agtcaccta cttgtacgaa tgacaaatct aaggcttggtg aataggggtga taatgatgga 120
taaccccatg ttgagactgc tattcgtata cagcctaaca tcccaccaac cgagcaatgt 180
cgttactcat ccaataacaa accttgctct taccacctg gccagcatcc acataggcca 240
tccctaaaat caaccaogaa acctacctac accacttgca ctgacagaca ccacctttat 300
cagcaactca aacacctgcc aataaatgaa tttctcctgg agatagcctg tcaaaaacac 360
cccacttcca gtgtcctatg ctgacttgct ccatatct 398

<210> 18196
<211> 300
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18196

atcttataaa tatgttntaa atccaagccc ataagtaaaa tcaaatacaa tctagataag 60
ataagataag ataagatcta gatgaaataa tatctagatg aggtcaaatac taaataatat 120

ctagataaga taagatctaa ttttatagaa taaattagtc tgccctcttc aagtccaagc 180
ccaattctag attcaggccc aatgcttcat taattcctgc aattagaata aaaacatcaa 240
attagctgaa tgggccc aaa taatanaact gcctaataaa tttgacaatt aagactaatc 300

<210> 18197
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18197

tctaaacttt gtacaagaat gaagctctga tacctcttgt tttacaagtg gcctcagata 60
tcttaagaag ggggggttga attaagatat tccaaacttt tctcctaatt aaaaatctat 120
cttacttttt acttaagtta tgaattccct taatgacaat cttcttaaat attaattcaa 180
atgaagcaac ttgaattatg aatataaagc aataataaat aaaggagatt aagggaagag 240
aaaatgcaaa ctcaagtttta tactgggtcg gccacaccct tgtgcctacg tccagtcctc 300
aagcaaccgg cttgagagtt ccactaactt gtaaattcct tttacaagtt ctaaacacac 360
aaggacaacc cttcctttgt gtttagagat tctntacaac aagagactca cagtctc 417

<210> 18198
<211> 233
<212> DNA
<213> Glycine max

<400> 18198

ttctttgaaa tctcggataa accaaatcat gttgataaat tgcaaaaagc tctttatggt 60
ttgaaacaag cccttagggc ttggtatgaa cgcttaagta aatttcttct aaaaaagaa 120
ttctctagaa ggaaagtgga taccacattg ttcatacaag aataagcata atgatatttt 180
ggctggtcca aaaatatgat gatgatataa attttggaac cactaatgat tca 233

<210> 18199
<211> 415
<212> DNA
<213> Glycine max

<400> 18199

tgtgcattca atatcctgat gaggatgttc catatgtttt caagactgga ctaatacatt 60

tgctgccccaa gtttcatgat cttgcaggtg aagatcctca taagcatctt aaggagttcc 120
 atattgtctg ttccaccatg aaatcccttg atgtccaaga agatcatatc tttctaaagg 180
 cttttcctca ttctctagag ggagtggcga aggattggct gtactacctt gctcccaagt 240
 ccattaccag ctgggatgac cttagaagg tgttcttggg taaattcttc cctgcatcta 300
 ggaccactgc catcagaaaa gacatttcag gcatcatgaa acttagtgga gagatcttgt 360
 atgagtactg ggaaagattc aagatattgt gtgaaagctg tcctcactac cagat 415

<210> 18200
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 18200

gcagcattct tttcttaaatt aggtcagctg aaaagatgac ggaagcacga tgttgggccc 60
 gctagactcg tgggtcatgc caaaccaacc acatacagag ccaaccaaca gccaaaccaa 120
 gaggtcgctg gaaagtgggt tgagtgaaaa cgtaatgtgc cacaagggg atcgtgcgtg 180
 aaggtgacat gtcggagtct ggggagcgtg gtggcacatg cggaggcggt ggggttgttg 240
 gagagagaca ctt 253

<210> 18201
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18201

aggacctata acactcagct tcatgcagga aacatgctat ggcttttttt tcttaattcg 60
 gttttagaat tagaagaaac atgaatatta ggatttgctt gtgagagttt tcgctcgaat 120
 atgggctgcc ccatgtttga tactttacat agaggtagtg tggaaaacac cttgcaatag 180
 tgtgtataca tatgtaaata taaggagcat gaaattccta gcaaagtgtg aatgattgtc 240
 ttctaaatg aatgtatgat agtgtggaat acctttttga atgcaaatat gtgcaggatg 300
 taattagctt tccaatatgc atataataa atatgagtga aacagtcaaa atttgtatgg 360
 cgtacttcaa atgtatgtaa gtagtttgtg atatcaaata gttaagatat aaatta 416

<210> 18202
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 18202

cattatttct ttcgctggag ctgacccatt aactgcccta actccttttag actggtgggc 60
 cctaagctct tgaccttgac ttgatagaac ctttttttaa acgaaggcgt ttgacttgat 120
 cccattgttt actaaagtga aacaaaatth agtgcgaaac aaaactccga catccatcat 180
 ggggtggaatg gatgaatgca tgaagacatg catatgacat agatgcaatc tatgattaca 240
 ggaccccgga aat 253

<210> 18203
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 18203

gttttggttg tgcattctct tctctgtttg ttgattcttt tcatggctag gctggtaaatt 60
 gccacaact tctcctgtca cagttgggtg ttcccaaac atgtctctca ctttttcaa 120
 ataaccgtag ctcaaggatg tcatcagcac agcttttgat ttcggctttc ctggtgaatt 180
 aacaatatcc cccttttggt taacatcagg caaaagattc tccttcaaag tgcaagctaa 240
 gatctgatcc aacacatggt gaaatgggtc agttctagta tcaaactc ttatttggaat 300
 gcctactctt tcatcaacgt cagctaaata agcttgatag tatctgctaa caagtcctca 360
 tactttgttg gtaggggtga acagatatct acccaagaaa t 401

<210> 18204
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 18204

ttcttctcga tatgtgatgt gcatgaatcg aacatccgag ttaaaagtta tggcgatttg 60
 aatttctcga aagctttcgg tatttaattt tgagcatctc gacacatgat gcgcccgaat 120
 tggacatccg tgtgaaagt aagaccactt gaatttctcg agagcttcgc tattcaattt 180
 ggagcgtctc gatatgttat gcgcctgaat catacatccg agtgaaaagt tatgaccatt 240

tgaatttctc aagagcttcc gttgttaaatt ttcgagcatc tcgatatgta atgcgcctgt 300
atctgacatc cgagtcaaaa ggtatgacct tctgaatttc tcgagagctt c 351

<210> 18205
<211> 384
<212> DNA
<213> Glycine max

<400> 18205

tcctctaccg taaaaaaaaat attatttgcc tttgttttta aaaagaattg cgcaatgtcg 60
gcagaaaaat atcagtcgtg gctatataac gaccgatgtc aggtattttt gtttcaattc 120
aatccctgaa taatttttgg atattgtcca ataagaaatg ttcgatcggc gtcacaaagt 180
gatgcttget ttttatttta gacctgctgg atcggtcac cttcctggcc gacatcgact 240
atcatttttt ttatcagtgt cggatgaataa tgttttttgg ccgaggtggg ctgatgtttt 300
tctagccgag taaatgagaa cacgccagtg tctgccgaaa cacagcttcg gttgagctcg 360
cacgaaaaaa caaagccgac ctac 384

<210> 18206
<211> 293
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18206

ttcttgtaga caataggtaa ggaaaactct accttatggc ctattgctta atctgattgg 60
aagggttgtt tatgcttcaa agcatgtttg atttttgtgg gttggtggaa tttggtgttg 120
ggtttccttt agagtccttg ccccttgtat gcttttgatt tgggaattct tgatgaaatc 180
ttgtatatgt ttaattgatg gttgatttat gtttttttgg acttgtgttg agtattgnga 240
tggttttgaa tcatttgtga gtgttttgaa aggtagagag taatgaagat acg 293

<210> 18207
<211> 403
<212> DNA
<213> Glycine max

<400> 18207

tgaagctcca ggaaaagctt gaagatgttt tgtttatgtt ttggctttta catgcctaac 60
 tcccttgagt ggcatttgta ttggttgta tcttggtgtt ttcattcttag tacattttga 120
 tatttgtatt gcatcatgca tcacgtggtt ttatgtgaag aaaagcttct aagttagaaa 180
 gtttattcag aggaaataac tctctatttt aatcggttac atcctcatcg caatccatta 240
 caacaagttg tctaaagctt aaagagttga gtctcatatt agtttaatcg attatagtag 300
 tcttttaatc gattacactg ttgtttgaga tagtgactga tttattcagg agtctctgct 360
 ttaatcgatt gccttgagca gagtacttat tagacctatt ttg 403

<210> 18208
 <211> 331
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18208

agctttaatg tgatgcattt ggggcaggca taggtttgtg ttgatccaag aagggcatcc 60
 tattgcatat ttttttagaa actgaatgaa gctgctctta gttattctac atatgataag 120
 gaattgtatg ccttaattag agctttgtag acttagcaac attatctctt gcccaaggaa 180
 ttgtttattc atagtaatca tgagtctttg aaatatttga aaggacaagg aaagttgaac 240
 aagaggcatg aantttttat tcactatgat catgagtctt tgaaatatct gaaaggacaa 300
 ggaaagttga acaagaagca tgctcttggt g 331

<210> 18209
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 18209

tgtaggatta tggggtaccc atcacatgtg gtattaggtg gcgggtcgggc gatggtgcac 60
 aacaagtttt ccacatccac aaatcgcgca taaacccacc atccccgtgt gccacctcc 120
 aactgagctc acgtactccc acgtagccca tatcatcggt tctctcaaca ccgggtcccc 180
 atcaatcctc ccaagcttcc caacatccaa ttaattcaac atccaatcat catggactaa 240
 caaaaccaag caaaacaggg caaaggcaga aaactctgcc caaaacacaa ctcaaaatca 300
 cagcttttct cacttaaaga cccagtaac aattccttct ttccaattcc ttaaccgttg 360

gatcgactcg aaaattttac tggaagtctc tagtacataa gcctacattt tgacc 415

<210> 18210
<211> 361
<212> DNA
<213> Glycine max

<400> 18210

attcttttct atgcagagaa tatccaagga aaataccttc atctgactta gcatcaaatt 60
ttcctaagtt atctttttcca ttattcaata caaaacattt acaaccaaag atatgaagat 120
gagagatggt tgggttttctg ccattgacca attcatatgg agtttttctt aaaatgggtc 180
ttattaaagc cctattttaa ctgtagcatg cagtgttaac ggcttcagcc caaaagtatt 240
ttggaagagg agtatcattt aataaagttc tagcaatctc ttccagagat ctatttttcc 300
tttcaacaac accattttga tgaggggctc ttggtgcaga aaagggtatgc ttaatcccat 360
g 361

<210> 18211
<211> 412
<212> DNA
<213> Glycine max

<400> 18211

tctagcacac tctagatatt ttctcaaaga tcctttgtgt taatcatgtc aaagtttctt 60
gtgaagttgc aaaccaaatt tagagaagct ccaacggcta acgaaggctg ggcagcgttt 120
ctaccgaggc agcttcatgt agtttttctt agaagcttca ttaagaggct tcttcagaa 180
gcttcattaa gaggcttctg gcacactcca gacatcttct caaagatccc aacggtcaga 240
tcatggaaaa gtgttttctg aagttgcaga ccaaatttcg agaagatcca acggttaatg 300
aatgttgggc agcgttttta cagaggcagc tacatgtagc tctctctaga agcttcatta 360
agaggtttcc tctagaagct tctcgtggc ttctttgaga agctttctca ag 412

<210> 18212
<211> 281
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18212

ttcttgttgt ttgataatcc ctacaaaatt ganagttaa ttctttaatc taatccgatt 60
tgaagttcat acaaaatcca gtaaacagta gggttttatc caataagttt taatttgaac 120
caaaactttc cttattttctc tcctttccac tttcaaaatt atttgaaatt taaaaaatgg 180
atcactggat cataattgat aataaattag ttcaaaacta caggtaatac aaaggtaatt 240
attttggat gacttcaaat ttatcttaat tcacataaac c 281

<210> 18213

<211> 415

<212> DNA

<213> Glycine max

<400> 18213

tgtaattgat tgttttcctc ataaattaaa aaattgaatt atttataaag gagggaaaagt 60
acaactaaga caagttatcc tccaatgggtg gcggcttggtg ttttgccatt ctgtttatgt 120
ggaacatggt tctgctttct agttcttggg ctaccatttt tgatgtgggt aacgtagatt 180
attaccatct tttataccca gaaaatacat gctgctatgt tgaaattttt ttttttagga 240
agaaacctat agtacctgac gtgctatccc accaacacat cacaatgtta tctcggctgt 300
ttgggtatttt gtttccactg gacttcaaat ttatttggtt ttagatgctt gccatgtttt 360
gttactattg aacagaagtg taattcactt agttaacaat gatcttattc ttgat 415

<210> 18214

<211> 323

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18214

atcttgagcc atcacccaat cttgcaacac aatgttgggt ccaaggttat caaactcgac 60
agtttacgta aactcgtaag agttccatag actcaactcg tagacttata cgagtccact 120
tcatataaaa ataataacaa aatatctata aataacatac caattaaaca ttttaacaat 180
ataataaagc aaaatagtaa atcataaatt tcacaatact gaaataacca agtctagtaa 240
tgcatcacta ctagataata acttgcagat tntatagtag tggtagagca ttcccatcaa 300
ggatntgatg ttattagaga ata 323

<210> 18215
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 18215

tgaagtgaga aagtatggaa gagtcagtct tectactttt attcattgac cacaaagtgg 60
 tacctggaga tatgtcgcgg gggtcaggag accttgggga cgtcagggtga ggtgctattg 120
 cccaaaacca agcttgacca atcccgaccc aaccgggga tagtcagtca gtgagaacct 180
 gtgacgtacc taaacaggcg agctcctggc agtcaaccga taaaagaaca aagaccacaa 240
 agcaaggagg cttgtgtggt ggctggccag ctatgaatct tgagtggtag ttggaatatg 300
 acctctagta ttcgattacc aaggggtgtgt aatcgattac aaggattaaa aatgaagaca 360
 ggaagttaag atggctctctg gtaatcgatt accaatggtg cgtaatcgat tacca 415

<210> 18216
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18216

ttcttgatcc caaacgggtg agagtgtgac ctactctgt gagtgaacga ctagctatga 60
 gtgataatct ttgcataaat ctctgatttt tagaatgaaa tgtataaatg aggacatgat 120
 gaaggccatg attgtacata cacaagctct tttgaccaa caacttacca tgaatgataa 180
 ttgcatectt tgctcccttt ttgagctgaa tgatattgtc aaaaatttga accctgaact 240
 taaataatta tctcctgatt ccttggttag attttagaag agcatatggt tcaaggcaaa 300
 tttactctan attttgggag ggaagtcaat tagaaatgaa a 341

<210> 18217
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 18217

tattgatttg tcatgaattg aaccctgaac tttaaagag tatctcctaa ataccttggt 60

tagattctag gagattatat ggttcaagga aaatttactc taaatttggg ggaggaaagt 120
 caattagaat gaaaagaaaa aggttaagca tcagcacaca caacaaataa gttgtatggt 180
 aaaaaaaata agttgtgttg ttacaaaaag gtcgaaagta acttaagaaa agggaatagt 240
 gagaaggcta tttgtacaaa acaagaaaag atcattggga ttagtctagg acttgtgctc 300
 tcttagaatc taaacttttg aatcctagaa aaaccagtga aaatttttgt agccacaacc 360
 tcactacaag cctgagaaag tccttctgat tctatttata tatttctgac ttgattac 418

<210> 18218
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 18218

gcatttctga tgaactttac caaaaattgc ggttaggaagt cccaagactg ggaagctccc 60
 agtgaagggt tctgcctttc ttacagctga aggatcatcc agatcaagcc ttgctataag 120
 ttcaccagcc tgcaaaagggt gatacaattt tattatcttt ttcaatttca acaattgtac 180
 ttcctatgtg gaataaaatg ctatatacct gcattgcttg accttcagac attttgaaat 240
 gaataatccc acaagcaggc gaaagaaagg catgcacatt tttatgacct caacttcagc 300
 atacggtgtg tcaccatcaa catgactgtc atctgcaacc aaatatct 348

<210> 18219
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18219

ctgaagtgaa aggatgtgac tcttcacatt tgaatttgaa tttcagcggt caagggcact 60
 ggtaatcgat taccaaaaca ttgtaatcga ttacagcttt ttgaaaataa ttggaacggt 120
 gtaaattcag tttgaaaact ttttcaaact cattttgcta ctggtaatcg attacaacaa 180
 tctggtaatc gattaccaga gagtaaaaat tctttggtaa aggggtttttt caaaaactca 240
 tgtgctattc aaagttttga aaaacttttt aatacttata ttgattgagt cttctcttta 300
 ttcttgaatc ttgatcttga tttttgagat cttgaacctt gaatcttgat tcttgtctct 360
 agactttctt cttgagtctt gaattgttct tgaattttat cttgaactct tga 413

<210> 18220
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18220

tagcttcaca tggagctaca tcacagcagc tgctactgtg cacccaacat tgcgcttct 60
 tctcttcgcg cctcttctcc tcattcgtgc ttccttcacg agtctcttct ccacctctac 120
 aagtctcatc tcctctgtca tcatgagtag tgttggtgctg tcgataatga gtttttattt 180
 tttggactct gtntactcca ttcagatttg caatccatat gggacatgcg aaatacgaaa 240
 tacaaaatac aaaatcataa cttatatgga ttgacaattc gtatgtttca tacagattag 300
 cataaattga agttacaaac aaaaaaacta acct 334

<210> 18221
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 18221

ttgcggattt ggtctttgcc ggcaaaagga tcatatctgg tctgaaaaga ggcaaatttg 60
 atcatcctac tttgatgagt gagaaagctg gggcaaatga agaggatgag aatgaggaag 120
 gaacccatgt tgtggctgcc attcctacat ggccaaattt cccaccagcc caacaatgtc 180
 atcgcttagc caatatcagc ccttctcatt acccacctcc cagtcattcca ccaagtttgc 240
 tagtcgcaca tccaatgcc aagcgcaaacc aaaacaccaa ccaagaaatg aattttgcag 300
 cgaaaaagcc taaagaattc accccaattc cgggtgtccta tgctgacttg ctcccatatc 360
 tgctcgataa ttcaatggtt gctataaccc ccgccaaggt tctcaacct ccttt 415

<210> 18222
 <211> 329
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18222

cattctatct tacgattaaa aacactatga caaattacat tgacaccgt tatagtttct 60

tgaaatttta cacgatattc attgtccctt acctttttta agcttatagt aactcccctt 120
 aattgtttga aaaacattaa accctgtacc ctttatacct aagaacaca ttacatcata 180
 aatccctgac actcctgtgg tttcttgaaa ttttcacacg atactcctag tccactacct 240
 ttntaaggta actcctttga actgtttgaa gcacattgga caatgtatcc ctattatcca 300
 agaacacata acatcttgca tcctataat 329

<210> 18223
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 18223

tcatgatgat gaatcaagtt gattcaagtt gttttaatga tgaaaaagat gatgacaaaa 60
 agcctaaaga atgatttcaa gattaagttc aagatcaaga ttaatttcaa gattcatcaa 120
 gaagattcaa gattcaagaa taatcaagat caagattcaa gactcaaaga ttcaagaatc 180
 aagagaagac ttaatcaaga taagtattaa aaagtttttc aaaacattga gtagcacaag 240
 aagatttcac aaaattatta ccaagagatt ttactctctg gtaattgatt acaagaatgt 300
 agtaatcgat taccaatggt tttaaaacgt taagattttc aaaattcaaa atgaagactc 360
 acatctgttg atgtgtaatc gattcacct taatggtaat cgattaccag tgact 415

<210> 18224
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 18224

tctttctttt acctcatcgt ctctcacagt ctttatattt gggagccaat ccagtccttg 60
 tgttcggact ctcagccact tatgatattc gccgatgac ccattactgc ttaccctaag 120
 ctctctgtcc tttcttcacg ccgcattcca tgccttgcca actccttgga gtaccctcgc 180
 gttgtggtca gtgaaacctc gtgcgatgaa aggcgtgatg ctttcgtctg atggcactgc 240
 tctcatggga catccttcgc atg 263

<210> 18225
 <211> 403
 <212> DNA

<213> Glycine max

<400> 18225

ttataagcgc aggtctggga gacaaagggt tgtgttttcg atatgcgaag atgatgttcg 60
gagtactttg gatttggtac gaccatgcc tcttgatttc cggctgggaa attggcgagt 120
ggaagaacgc cccggcattt acgcaacatg cataatataa acctttacgg ttttaaaagc 180
tctatagttg ggcctaggct ttagagtttt tctttttgtt aaggctttgt gtcttttgtt 240
tttgaattta taatacaagg atctttcttc atctgttcct ggtctctacc cattctcatt 300
catttgcatg tttacttttc tttctgacac ggcagatccg atgacgagtc ccccgaaagga 360
ctaatacctg cgacccgcct atcaccttca agcaagaaat gaa 403

<210> 18226

<211> 246

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18226

ttttgcttga aggtgtgtaa cccaccattt tccatagtaa aatactggta atgtgtctac 60
tatcattgtc atcattnttt cgtcaatgag gtgccacttg agctgccaaag ttctccacct 120
ttgggcgtat tctttgaaag atccggggccc cctttttgca catgttttgt agttgcatcc 180
tatccaaagc cattatactg acgcagccta acaaaggcaa ccattaggtc cttcaagaat 240
ggactc 246

<210> 18227

<211> 414

<212> DNA

<213> Glycine max

<400> 18227

ttgatgatat ggtcttcacc gacgaaagggt tcattgtggg tctaaaaaga ggcaaactctg 60
atcatcatgc tttgataaat gccaaaaaaa aactaggggca aatgaagagg gtgagaatga 120
gggagaagcc catgctgtga ctgccattcc tatacagcca agtttccac caaccaaca 180
atgtcattac tcagccaata aaaaaccttc tctttacca cgcgccagtt atcaacaag 240
gatatcccta aatcaaccac aaagtctgtc taccgcactt ccaatgacga acaccacctt 300

tagcacaaac caaaaacacc aaccaagaaa tgaattttgc agcgagaaag cctgtagaat 360
 tcaccccaat tccagtgtcc tatgctgact tgctcccata tctacttgat aatt 414

<210> 18228
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 18228

ttgcttgtct tcttatataa caatagagaa ttctcgggtga cacattctaa aacacatttt 60
 actgaactca ttattattga gtaaaattta ttacaaatta caaaatttta taattctata 120
 agtataattt cctattcgag ctccacttat aatttacaat ttctgattaa ttttaattaa 180
 aaaataaaaa gtgtgttaaa aaaaagttcg ttaaagagtg gcttactgat acttgtgtcc 240
 tctcaacata ataagttgta acatggacat gtgacacctt gttatgggag tggtttctca 300
 atatatggtc tctcatttta aatcagatct atgtttttcg tattcaact 349

<210> 18229
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 18229

tatgtatcca atcatttgca ttttgttttg tatttatacg ataatgattt tcatgtaccc 60
 atctcttatt cctgtttggt tctcttcttg cctttatttt tatagcggtta taattactat 120
 ttatttgttt tattttattt ctatttcctt ctctttttct ctttttcttt ttctcaccac 180
 aaacatacat tatctgtatt taggctattg tatcctgcat ttttattatt gtatccgatg 240
 ctttccaatg cattcgggaa aacttatttt ggaatttaaa atgaaagggtg tcggatgtaa 300
 aatacatttc acaatataac agaagggtgc ggatacaaaa tagtaagagt gataaaaata 360
 aacttcctgt atttatagag aataaggcct gttggaagac ttctt 405

<210> 18230
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 18230

tttctngagg atagagactt ctttaagctat ttatcttctc tcttagagag gcttactcaa 60
gcttgaggat agagacttcc caagctatctt atcttctctc tcagagaagc tctctaactt 120
tctagctttc ttactctaag aagtggattc actcttgtct tggatcgact cactctacgg 180
tggctcactc aagcttgagg atagagactt cccaaactat ttatctcana aatcctccca 240
actacttcaa aaatttcctt tgtactatta aaccactctt aataatattt ttctaagcta 300
tggataacac tactcaatcg tcaactattt ctgtccctat c 341

<210> 18231

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18231

ntaggagaaa ccataaaaac taaggtagtt cctttacaaa aatcaattga ggaagcttcg 60
ccaagtatcc ctattgaaaa acctttattc aaacctttca aagttagtga gaaggctaaa 120
cgaaaattta gggaacttag aaaaactaga tccttaattg aaggcgtagg tgataaccat 180
agtgaattac ttaacaagat tggtagttta cttaaggtea ttccagatac tcctcaagcc 240
tcggaaaata cttccaaaat ggtaacaaga agtacctcca aattaattaa tgttattaat 300
gaagatagtg accaaaactc agataacaca actgagatag gatcagtgtc agaaaagaat 360
ataaatccaa ttaattccaa acactggata acaccctcca agttatatta t 411

<210> 18232

<211> 355

<212> DNA

<213> Glycine max

<400> 18232

ttctttaaat atttcagatg aagtcattcg attattgtta cttcataagt agcagcttgg 60
aggagatata tatgtttgtc aaatgttggt gacaatgtag aaacattggt aggcattgaca 120
accggatcgg gttttgttta tcttatctca gtcccgatt cctcatttcc ttctctaccc 180
ctgtccccga aattcaatgg gagtgcata tttatgtgat ccagtcctcc agtgagggtg 240
agtatttacc gtcccgctct gccccgaca tatttataaa attgtattaa aaaatcta 300

atttcataga atgaaaaata taattgtaaa taaaaatcac aatattgtac atgac 355

<210> 18233
<211> 419
<212> DNA
<213> Glycine max

<400> 18233

tgtacaggag ataatgacaa tttcgacttt atgtttgctt ggttgtccgt ttgtcttatt 60
ttattagaat taatatagaa attttgttat taacctcatc tattatttta ttagaatttt 120
ctttttttgt attattttat tagaattatt aattgtttta aaaaaacaaa gacattctaa 180
gatggttcct tgaaaaacca tcttagaaag tatacattct aaaataattt ttgaaaaaat 240
tatcttagaa ttcttaatat ttttaattga aaaaaaacg ttctagccat cttaaaaaat 300
atacctttta agaaggttct ttgaaaaagt gtcttagaat ccttaaattt ttttgtttgt 360
ttaaaaaaag aacaaggatt ctaagacagt tttgcagaga actgtcttag agagtttat 419

<210> 18234
<211> 239
<212> DNA
<213> Glycine max

<400> 18234

tcttgatgtc ctggatcgtc ttcacaaatg gagtcctttg attcttgata atccctggct 60
acagatttgg taaggcagaa aggtgattgt aaacgccact ttctggagaa aatgagtcaa 120
caacaagctc accaccatat gaagccgtgg ataagagttt gaagtatgac aaaatgaccg 180
aatggagaga gagagggggg acggggggctc acagtataaa tccctttgat gacgacctg 239

<210> 18235
<211> 408
<212> DNA
<213> Glycine max

<400> 18235

ttattctttg tacagtgaat acactcttat tactctctcg aatatcccga gagaagagag 60
tgagagctta gatcctatat ccgtctatga gacaattaag aactagttag tgagccaacc 120
aagcaccaaa tcttctagtt tgtttttagag ttaacaatgg cttggtagga caaagaatac 180

tacattgttc aagcttaatg ataaacttgg actgtaagag tcacaagtga cattaaaaaa 240
tacttataac tttgaaaagt taatagaact tgtggtttac caagaactgg acgtagtatc 300
aatgacaaaag ataaatcaat ataaaacttc atgtgtctaa tctttatttc attatgtgtg 360
taattgacct taggttttaa tatgatttct gttttggaaa agttttta 408

<210> 18236
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18236

atcttgccat ccagctcgcc caggcgagcc aggtttccta aaaagcccaa gtgcgcttgg 60
tttctatttg cccccccat ttactaaata caccacttcc tttttttgct gattcttttt 120
tcgtaacgtt atgaaacttt acgaattttg taacgatact tgttttcttt ccgtaatgtc 180
acggaacctt atgtattatg tattcatccc tttttgggct tccggaaagt tacgaaacct 240
cacgaattgt gcaacaatgc ttccttttga ctntccgcaa tgtacagaac ttcacggatt 300
gtgcaacaat gcttcctttt gacctccggc atgtcacgga acttcat 347

<210> 18237
<211> 416
<212> DNA
<213> Glycine max
<400> 18237

tcaatggagg aagagaatga gagagagaga aagatttgtt cgtgggaatg aaggaaagag 60
agggagagaa gtttaacttt gaagtgtgtc tcacaggact ctaactcatc aaagttatca 120
caagtattac acatgcttct atttatagcc taagcagctt ccttgagaag ctagtggttac 180
acccttccaa tagctaagct caccctcatg ccaaaataca tcaaggaaga aagcttgcac 240
gagaggcttc cttggggagg aagtgttaca cccctccaat agcaaagctc accccatggg 300
aacacacacc cctccaatag ctaagctcac cgccccccaa aatacaaaaa aaaagacctt 360
actacaaaga ctactcaaaa tgccctgaaa tacaaggcta aaaccctata ctacta 416

<210> 18238

<211> 331
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18238

atcttgttgt gacccttaat gggccttccc agttgggacc aagcgttggg gaatcttttc 60
 tagcttcgcc tcaaactcac agtacgaggt cactgggttg aaaggctcgt ggttgaacct 120
 ttgtattata tctctttatc actcagagct tcgtagttta ttctctgac ctggccatct 180
 cttagacttc atctattgtc ttgagttcta cctttatggt ttcttcattn tgttgttgtt 240
 ggaacaatag tctccttgtc cacagttccc ctacttcgat ggngatcatg gcatttgtgc 300
 catatgtgaa tcaataagga ttttcattaa c 331

<210> 18239
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18239

ttttgaaatt tcaaaaatat ggtatttact ctctttgttt taattaccag aggatgtaat 60
 cgattaccag tggccaaagt agtttctgaa atgttcttaa aattttgaat ttgattttta 120
 aagcctataa tcgattacac aagacttgta atcgattacc agaagttcta aacattttat 180
 aaaagtcttt agaaatttga atttaaattt caaagcctgt aatcgattac agcttgtgtg 240
 taatcgatta ccataactta aaattcaaatt ttcaagtctt tagagtcaca actctttaga 300
 aaaataactg tgtaatcgat tacaccattt tggtaatcga ttactagtaa ggaattttca 360
 aaaataactc ccaacaatca catctattca aatgtnnttg aatggccatc aa 412

<210> 18240
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18240

tttcttgat gcttaaagtc tcacgattgt cacgtgctca tgcaacaatt gttagccgtg 60
 gctatacgag acatcttgcc aaacaaagtc aggttagcca taactcgcct atgctttttc 120

ttccatgcta tatgtagcaa agtcattgat cctatgaagt ttgatgagct ggaaaatgag 180
gctgcaatta tactgtgccg gttggagatg tattttcccc ctgctttctt tgacatcatg 240
attcacttaa ttgtgcatat ggtaagagaa atcannatgt gtgggtccctg ttatctacng 300
tggatgtnac ccggtgagcg atacatga 328

<210> 18241
<211> 413
<212> DNA
<213> Glycine max

<400> 18241

tgagtataat tcattctttg tgttgtgagc ctacttcatt catttggtt attgatgttt 60
ctgtcacaat caagcaattg ttaacgttct catatgggtg tacattgtgg tcatgttttc 120
gtttctagaa ttcattgaaa tattattggt gattctgaat aagtgatcat ttttttttat 180
ttcaaaaatta ttgtctccta atcaatcgag tgttcacatt attattgatt tctcatcttc 240
caatcatgtc ttgttaaact gcttgatata ttgtgatgtt gttattttgt tacgaataaa 300
gaaagacttc actcttggtt atcacattaa ggcattcgag aggaaatcct tgagtaggca 360
tgatccttgt acttacagat gaaagtaaac ttaataagtc aagtacttgt gct 413

<210> 18242
<211> 336
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18242

tctttcttta ccctatattt atgatacatc tagttcaaca ctagtttttt tataatttta 60
ttattattta tcttcaatct ataaaaaaaa taaacatatt tttcttggtt gatcaaggac 120
gtgatacatg aaaagactat cttcatttgt ccttgattgt ttaaaaaaag acctacataa 180
gatattatta aaatattcct taccaacttc tataatactc ctactatatg ttgaggacaa 240
tgcaaaaatt gttaaaccat caatctatac taagtcttat aaaagtagta atgcgcgatt 300
tagtctttnt attttatatg gtgggggatg tgatta 336

<210> 18243

<211> 412
 <212> DNA
 <213> Glycine max

<400> 18243

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ttgataaatc ttcggtagta accagtcaat ctattataac cctttaacta ttagacattg   60
gtaggcttcg gccaatctaa caccgcttgc accttcccag catccaatgc tactccagct  120
ccagagactt tatgaccaag gtattccacc tcaagtaatc caaatgaaca cttagagagt  180
tgagaaaata aaacatacta ttgtagtgtc tgtaagacat actccaaatg acacaaatga  240
gtagactagg aagggtctata gaccagtata tcatcggaaa aaaacaagca caaatTTTTCC  300
taactcattt tgaaaaataa tgttcatcaa acattgaaag gtagttggtg catttgtgag  360
tccaaatggc ataacaagcc attcataatg gccatgatga gtcctaaaag ca          412
  
```

<210> 18244
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 18244

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ttcttgtcct tttgggcttt cactaagggt ggaaatgagt gagccaaact tgaattgagt   60
tgaacacata aggcttgagt ttgactaatt atctctaata ggcttaactt tgtcatacat  120
aaaagtctag cttggcgagt ctaattaaaa gcttgcttaa agacgtcttt gatcaattaa  180
ttatttttaa atctagttaa atactaacta aaaaaaagaa acttataaaa tttaatatga  240
gtaatgtaca aatccaaaaa taattgataa acaaaatcat attgaattca agtagttaaa  300
atacaaagaa tatataaaaa atgaaaaaaa gagag                                335
  
```

<210> 18245
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18245

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tggccgatgg tccgcaacga attgatcaaa gaatttggca aatggctcgca tgactacttc   60
atctttcttcg gtggaacaca aagattcgaa caattaagga tgtcgctaca tgttgatggg  120
ttctcccaag tatgttgcac ttgctaattt tttttaaaaa aaacaaagtt ttaaaataat  180
  
```

tacatgtgta tgtttctttg attcaggtta gtgtggacaa gtggatggat ataatggaca 240
taggatatgt cattgtatct aggtataacg taatcgttat cccgacaaca aagcatgaca 300
ttttttcctc tgagaagtca accaccacca aattatttta ttcaccgcat gatatgtgtc 360
ggtcacatgt ttggaaatca ttttgttcag gtacattgaa tataattatt 410

<210> 18246
<211> 343
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18246

tttcttctga gagtgcctta ttgtgtgctt tttttttggg taagaatact ttgggcttac 60
aagcttctga ggggtgcccta ttgtgtgctg tttttttttt tagacaaatt cccttatcaa 120
tcccccaaat taaggactta tcataacttg aaacccttat gctttcttag aaccctaaaa 180
caaggccaag gatatcaaaa ttaagctcag gggtttattc aaacaaatca ttattacttt 240
tggctcaaca ggggtgcaag ggataaattc atcacagggt agcttnttgg ctgagtggct 300
aaaataaaaa gaaacatggc cttgatcata tccaccttat gta 343

<210> 18247
<211> 411
<212> DNA
<213> Glycine max
<400> 18247

tgccacccag ctgcgctagg cgagctcatt tcgttcatgc gagctagggt gcttcctcca 60
gaagcaaccg ccttctggag gaatatcctg gaaggcccaa gtgggcctgg ttgctatttg 120
cacccccatt tttactaaat acacccttg ctctttttttt ggtgtttttt tcgtaacggt 180
acgaaacttt acgaatttcg taacgatgct tgttttcttt cagtgatgtt acaaaatctt 240
acggattaca taaccatccc ctttttttcc ttccggaacg ttacagaact ttacggattg 300
cgcactaaca cttcctttta atttccggca tgtcacagaa cttcacagat tgtgctacaa 360
tgctttcttt tgactttcgg catgtcacgg aacatcacga atagcctaac g 411

<210> 18248
<211> 334

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18248

tttctttaac ataaagagca tacttatttt tacaacgaac aaaccattg tcttggaagt 60
acttgtcaat ggcactattc catgccctcg gtgcttgctt tagaccatac aacgccttgt 120
tcaatttcaa gatatttcct tcttgacctt tgatgagaaa acccattggt tgttcaacat 180
aaacattttc ttcaagatag ccatttagca atgccgattn tacatcaagc tgaaaaactc 240
tccacttcat ttgagctgcc aaggaaataa aaagacgaat tgtctccatg cagacaaccg 300
gtgcaaacac ttcatcataa tcaactccat attg 334

<210> 18249
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18249

taaattgcct cttggatcaa tggttcatat tggtatccat gtttctcagt taaagaagtt 60
taatggtact gctactgctg ggaactttag tccttcacct ttattggata cttctcagaa 120
ggaacctgca gctatcattg acagaatgac agtcaagaga gaaaatcgtg ctgtaaccaa 180
agttttgggt caatggaaac atcaactacc tgaagatgca acttgggaat tcttttatga 240
cttgaatcag aagtttcctc actttaatcc ttgaggacaa ggattctttt ggggtgggagg 300
aattgataca ggcttangaa ggtagttagt tagttagact cgattctggt aacttctggt 360
agttggaaag tagttaggca gttagtgggt agaagctata agtagcaat 409

<210> 18250
<211> 116
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18250

actctcagta caatctgctc tgatgccgca tagttaagcc agccccgaca cccgccaaca 60
cccgtgacg cgaacccctt gcngggcgcat ngaatataac ttcccataat gtatgc 116

<210> 18251
 <211> 353
 <212> DNA
 <213> Glycine max

 <400> 18251

 tttttttttt cttcacaata aggccaactt atttacctcc gttcgttaac gaaatgaaaa 60
 tgacaaagta atcataattt cataatacat ggatagcaac gtaagcaaaa acatgataga 120
 gtggcaatca tagaaagcac ctcacaacaa tgtaatatat ttattgacac ataactgtca 180
 ataatagtag aaacttgttt acaatatatta aacaattgta tcgaaaacaa cacattcatt 240
 cttcctatgt catgtgtaac tatctacacc ggatgttctt aactttttaga aaatatgcta 300
 ctcatttctt gtgaattgtg tcatggcttc caagtataac ggcggggccat caa 353

<210> 18252
 <211> 410
 <212> DNA
 <213> Glycine max

 <400> 18252

 tactgttgac aaaaatctta ttgatgttgg ttatttaatg gttttacttg cagtgataag 60
 gccttaactt tttacttata tgcacatttt ctaattattt ttgttttaaac caataagggtt 120
 tttacaaaag gagtggatgc ggatactgtg gttttgatgg cagctcaagc ttcaagactt 180
 gagaatcaag atgcaataga cactgccata gttggaatgt tggctgatcc aaaagagggtt 240
 agtcattgat atattattca ccgcgattct tttgatgaca tattttattag ctgcaagcct 300
 ctaactgtaa tctgcagatc atcataattg ttactgtatt ttagtttgcg ttttaatttt 360
 cttgtctaac ttactgctac aaaggctcgt cttggatatcc aagaagtaca 410

<210> 18253
 <211> 360
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18253

 tgcattgctat cttangaacc caaacttgta gcttcaacgc aaggaaacat gcttatggct 60
 aggaatccaa aatttggttt tagaattaga aaagcatgaa aattaagact tgcttgtgag 120

agtttttgct cgaatttggg ctgccccatg tttgatactt tgcatagagg tagcgtggaa 180
aacaccttgc aatagtgtgt atacataggt aaatataagg ggcatgaaat tctttgcaaa 240
gggtgaagga gtattgaggt cgctttctaa atgaatgtat gatagcacgg gattcccttt 300
tgaatgcaag tatgtacata atgtaaatag cttgccaata tgcataagtg tgagtgaaac 360

<210> 18254
<211> 407
<212> DNA
<213> Glycine max

<400> 18254

tctggtggga catcttgact tgctttccaa tctgacattc accacagatt ctgccttctt 60
ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcatgcctc 120
ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggata 180
gacatgtgga ggagtagctg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
tgctgccctt cattagaact tcactcttct catttgtcac caagcattct gactttgtga 300
agtttacatt gaatccttca tcacacaact gactgatgct gatcagggtt gcagtcagtc 360
ccttcaccag cagtactttg ttcagactaa gaagtccatc atgaact 407

<210> 18255
<211> 318
<212> DNA
<213> Glycine max

<400> 18255

ttcttcagaa aactatagag gataatgcca cggcgaccgc ctccaatata gctaggggaag 60
cggaactggg gctacatccc gcaataaact taggccaaga tagaaacacg atgggtgttcg 120
gccggaggta tagtcctcaa gcttaccctt atgggttgcc tccagacttc actccctgta 180
ccgctccgga caatttgaac caagccccta ccttcgaggg gcaactccct ccttatgccg 240
attatcccct gcaagaagac gatgaagaag atgcccgctt aggccctcta cttcccctca 300
aggatccggc ccccatg 318

<210> 18256
<211> 420

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18256

ntgatgacct gaaactcact caaagaggat ctcttttcagt ttgaagtaag ataactgtcc 60
cacaagcaaa atatgagcaa acataaggat cattgcttgc tgctatgaga caaaaagatt 120
atgaaagcag gcttgattgt ggcaacttaa gatcgcccaa accacaaaga taaaactagc 180
aagaacaaca tcttttagctt gcagggtgaac aactaatttg ccaacaacca ggataagatc 240
cataggagaa gcaagattaa aaccatgacc agttaagtta tagatgataa ccaagaccaa 300
atctaattctc caacccaact tcttctaaaa gagagcatac tttgtgcaaa gcaagaatgg 360
tcaaaattctt ttgtaacatt tcctagaaat ggaaagacat taaaaaata tatgaaaaat 420

<210> 18257
<211> 321
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18257

ttcttttcat ggaggtgagc ttagttttta gatgggtgtg tgtagctaag ttctagcttc 60
tcaaagaagt tttctcaaag aagcttctca aggaagtttt cttaagaaag cttctcaagg 120
aagctaccta gtctataaat agaagcatgt gtaacacttg ttgtaacttt gatgaatgag 180
agtcttgtga gacacaactc aaagttcaac ttctctccct ttttcttcc tcaatttcgt 240
gtccccccct cctctntct ctccctcttt cttttctctc atttgagcat cctctccaaa 300
cttcttatcc aaggctcatc t 321

<210> 18258
<211> 417
<212> DNA
<213> Glycine max

<400> 18258

tatgggtgaat accaatgttt ttgtagcatc atatctggta ggctcatctt acgtgattct 60
gccttgggctt tatctacaca gacttcactc aagtcagaga aacagaaagc tgatgacttt 120
gaaagaaaat acaacgaagc ccaagtttgt agcgaagaaa gaggtaaaaa actggaagac 180

acggagaaga agacacgtca gcttcaagaa tctactgacta ggtaatatataa ataataaaaa 240
gtatgccctg atgtaattgt tttcccgatga taatcaatga tgtcttgcaa gggagagcct 300
tgtcacaatg ttaagggtgt tacttgtaac cctgagggtta ccagtacaaa tcttggaac 360
agtctctctg cttatggagt tacagctgca tacatttact actccagacc ctacttg 417

<210> 18259
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18259

ttcttgtgtt acgtcggtag aacaaaccct cagctgccat caacagaaaa catacttagc 60
cgatgtcagc ataaaaataa caatgactaa cgtaaacga aaacctagcc tatttgaaca 120
aaaaaatatc cataaaatga ctctggcaaa taccctagct tgatgtcgac caataaacct 180
atcatatgtc aaccataaaa tggcattggc atcgaccaa aatagccttg accattgtcg 240
accgaagaac atcatcaact gataaggtct atcctatttt aatgtgtact tgtttactca 300
taatggttct tgttgccgag tccaaccatt ntgaatgatg tga 343

<210> 18260
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18260

tcttgcgtag ccgctcttgg tgctcagaaa attttaattt tttatccctc ttattactag 60
ctattgtgaa ttcttttagt cctgaatgta caacattcaa attgttgctc gttccctct 120
ttcttttctg caaaaaagaa aatcaatata aaagaaaaca tggatgaagt cctaagaaaa 180
tcaatatcaa agaaaacatg gatgaaatca caattaaaaa gcacaactac caatctttca 240
gagtcctttg gtttaattgt cttgtctcct tatgtggtgg ggttctgttt aataatatta 300
tacttttgcc ttccaaaaaa aacttatgac tgatcctctt ttcattaatc ctattntgta 360
tgttattgta taaaagatca tgggttctcc acctacctcc actcct 406

<210> 18261
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 18261

agctttgttg attctgccta taaggtgggt aagcacttgt tgttggttcg cttctgtctt 60
 gagtgggttaa gcatcatggt tggcttatgc tctggatggt taagctttgt tgcttctacc 120
 tatatgatgg ttaagtactt gttgttggct tgcttctatc ttgagtgggt aagcatcatg 180
 cgtagcttct gctcttgatg attaagtttg gtttgcttct accttttagg tggttaagtg 240
 gttaagcatt gtgttggtggc ttctgcttaa tggttaagca tattccaatt gtctttgaat 300
 gttttcagtc attgtcaatc tgttgcccag gggagtg 337

<210> 18262
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18262

ctcctctccc tctccctctc cctttatgta tgttttgctg tctcctctc tcttcttctt 60
 ctccgccatt gtatttatctt aattacttaa atttgttttt ttaagttggt ttttaataat 120
 taattaattc aataaaaaat taatttatta tttttgttta atcaatttaa ttatatttga 180
 tatttgaaat agttatttgt aaaatattta aatatcattg attccaaatt tgtataagta 240
 tatattgtac atattagttt gacaagaaaa tttatagttg taaatgacaa aaaaaattta 300
 ttgatatagt gatataaata tttttatact aatagtaata aatatttata taaatagtat 360
 tttaaagtgt aaaaaaactc catttattgg aaattaaaaa atttgtagta aga 413

<210> 18263
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18263

ttgttgcatt cttgcatcaa tcatcagcaa acttagaata acaatatgat ataaatagta 60
 taaatagcaa catacttttg gaggcaccaa taattgtgtc ctcaatttag ctactttttt 120

ctttgaactg cctgggatga tactctgcaa gtacccatatt caaattcaaa tgcattaaat 180
tatcaaagac atagaagata aaccccanac caaaattaga ccataatgca aagtgaagaga 240
aaacaacatg ggaaaaatca ctttttgaga gcaaaaaatc agattcggaa aaaatattga 300
cagagagagc ataaacttct gtatccaata taaaaaa 337

<210> 18264
<211> 405
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18264

tttgctcatg agccaaagat aggttttagct tctctttgta ctaccctatt atagctagca 60
tgctttactc cgtggcttct aagtgctggg ccaaactcct cttggatctt gagcaagcag 120
ctaactcttc ttttaagacc atgctatgta cttgtgattg gtctctctct tccctttgaa 180
gcttgagctc attgttgctg cccacaaaag ctccatggaa tttgtctcgg ctatgctctt 240
ccttgcgagc cctcttggtt tctcgttcaa gggctcttgt ggtagctgca ttttcttctc 300
gtaactcggc acactctntc cagacgtttg tagtgactaa ctagaatttt tctttggcaa 360
gtcttgctat tccatagttct ggttttagag ctcggaacttc ttcac 405

<210> 18265
<211> 299
<212> DNA
<213> Glycine max
<400> 18265

attttcacca tcacccatagc cagccaacac tcccctcaac attcaatacc tccgatctgc 60
actttctact cctaataaaa tccatcttgc tgagttaccc ttcaactcta cccaacacgg 120
tttgccatcc aacatagaga acaccgagaa gctccctttc actcacatag ccaaactctt 180
tctttcaaca ctcagccttg aagctcctct ttgctccttg atatcacaga tcacagaaca 240
agagggtcac cctccacttt gcgttatatc tgacgtgttc cttggctggg ttaacaaca 299

<210> 18266
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18266

tgtagtgcag ctccagattt cataattggt tcattatcag gatgatagtc acagcctgct 60
tcaaggattt gcttaccaga tgacagtaaa gttggaactt tgtcatgacg aacctgcttc 120
tgattctctt ttaactcaaa atcattagca taaggaagat tagtatgtcc attaaaataa 180
ccattgttta ttgcggaagc gtcaagaagt gggttaaaga actgaaaaat aaaaccagct 240
gccaaacttg aacggtaagt ggtttttgag gtatcatctt taggtacaat agtggctgta 300
accaagatga cagcatcgta tagaatgcta gcacttaaaa gctttccagc taaaaactcc 360
tcaacattnt ttgctctgat tgcattgctta ctcccataag caccaaaaga caacc 415

<210> 18267
<211> 295
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18267

ttcttcaaaa agctgtgaaa agatgtaatt gaatatattga attgacgaag aaatcgagtt 60
ttgaatatct aataagaaga cttaaaaatg actagatctt ggcgttgtaa aagaattagc 120
tgcaagtcgt ttttaaggagg aaatattaat ataaaagcaa gacttgctgt cataaaaaag 180
ttgtacgtaa tgggaacgca taaatttgaa agcaagactt gttgacatat gtngcatgag 240
tcctctgtga ttcattccgt ctccaaaat tccatcaatc tggttttcat attat 295

<210> 18268
<211> 414
<212> DNA
<213> Glycine max

<400> 18268

tttgaagta ttttacccaa gaaaacagga aagttttata aaaggaaaac agaaatataa 60
tagagatgaa gtccaacaat acatacatcc aatgcgctca gcttcaacca tacgaagatc 120
taaaggaatt tcttgaaact gtgcagcaat ttgatgatct ccaagagata aattgtgtga 180
aacatatgct tttatgggtgc ctgctccctt tgtgaatcct gtgtcaacgg tcaaatggat 240
aggattgggt acttctcgag aataaaattc atggattaat gcactaccac cagttactcc 300

aagaccagtt gaatacctgc atgaaataac cataattagc tacagtgaaa ggaggttcat 360

aaactggtat aatagaacat tctctaagaa cataaagagt aagaaggaat aaaa 414

<210> 18269

<211> 234

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18269

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tttggttaact tttgtgagtt tttcagatgt gtttgcacgc ttttatgtac tagttatgtt 120

aattaattnt aaaaatagca tagtaatgct tggaagaatg agccatgtgt tgatttttaa 180

tacctcatatc ttgtgtgttt gatgttggtt cattatgcag cttanactag tctc 234

<210> 18270

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18270

tcaggctgct cgattgctcc aggttgctgt attttaggca aaggctctgta tgggtggtcag 60

cagaggagca caaaccacaa acccttgctgt cgcaacctac ccttcggcgg gagggcgacg 120

cgagactcgc gggatgcgtg ttccacgaaa ggaatacacg cggagtcgcc accaacgttt 180

atltgaggaa aacgtcggaa aaaccggaaa agacgcgac tacgaacttt taagtgaag 240

gttcgggagt tgtatttacg cacggggaag gtattagcac cccacacgac cgtcccaagg 300

gacggcagcc tttaatcgaa tgtgcaaaca tgactttgat tttttatgtt cctttntat 360

gtccttatat cctttatacc ctttttatan ttntctctt 399

<210> 18271

<211> 278

<212> DNA

<213> Glycine max

<400> 18271

tcttgcaaaa tgtcaactaa gaaaacataa gatagagtgt aaagtacatt gtaaaattta 60

gaagacatct aatttttaggt gtcttagttt aaattatgca atatactata ataatttaat 120
 gtgaaatcaa acaaacgcat aagagaaagg gtaaaaaatat aatttttgaa acaaatatc 180
 tcctatcaga tgaaatttat tggaattatg aattttttct tgctatcagt gtcacatttt 240
 ggttaataga ttttgggata atgctataaa gtttaatg 278

<210> 18272
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18272

ntgaaaattg aacacctcaa aatgaaaatt cgggtgtttat gttgttaatg gcgtttgttt 60
 ggaggcaaaa tgatagaggc atgtgggggc aaaagcaaat attatttcac caatgaattt 120
 ggccccactt caaaccacgc ttttttagttt ttattttctt tttggtgatc agcattttta 180
 tgtctctgta gcatgagaag tgagaattca gattacatag tttaaatttta gctgttgcta 240
 aaacttagcc acatgtccat actccatact ccacagttct cttctccaat ccttccattt 300
 tattttccac atcttttatt tccagaaaaa aaaatcatat gatttttgtc attaatacgc 360
 atgaagggtc tcattcattg ccatagtttt ctagtaactt ttaat 405

<210> 18273
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18273

tttcttgcat tcttgggaata gatacacgga aaacattctc agcctgaata tccttcagga 60
 gataaatgtt aagattttatc atactaagtt tgatgagttc aaagtggagt tggagaggcg 120
 taatttacac aaacgcctca ccaacctcca ggatggaagc ataaacatgg ttatgggtta 180
 ggaattctat gctaatttat acacctcaga ggaccaagct ccaaaagcag ctagagtaag 240
 aggacacctg atcaaaatag atgccgacaa ccctaagtag tntctctaga ctccagtgg 300
 attagaggag gaggaatctt taccacctg ttttatcatg tggcctctga at 352

<210> 18274
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 18274

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tttgtgtgaa aggatgtgac tcttctcatt tgattttgaa tttcaacggt caaaggcact   60
ggtaatcgat taccaaaaca ttgtaatcga ttacagcttt ttgaaattaa ttggaacggt  120
gtaaattcaa cttgaaaact ttttcaaact cattttgcta ctggtaatcg attacaacaa  180
tctggtaatt gattacgaga gagtaaaaac tctttggtaa acatgttttg agaaaaatcc  240
atgtgctact caatttttga gaaaaacctt ttcatactta tcttgattaa gccttctctt  300
gattcttgaa tcttgatctt gattcttgag atcttgaacc ttgaatcttg attcttgact  360
ctaaactttc ttcttgagtc ttgaattctt cttgattctt atcttg                    406
  
```

<210> 18275
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 18275

```

ttttctttga atgggcta atgaggatagct gatgccagct ccattggagc ttgtaggcct   60
aagatcttct tcatcaatgg attcctttgc ttcttgggaag atgaatggca gcggaatgga  120
gaaagggaga gagagaggag acgccacttc aaggagaaga tgagtctaga agaagctcac  180
caccatatga ggccatggat aagagcttgg aggaagaagg agatgaatga acggagaggg  240
agagaagagc acgacatttt gtgctccaat gaactttgaa tctgaagtta atatcaaatg  300
atccaagtca aaaaatgcc aacctgac                    327
  
```

<210> 18276
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 18276

```

tttttttagta gtgaacaaaa ttatattcct ctattaaatt tgacttcaga aggtgcatga   60
aaaatcccaa aaaaatcttt ccaatcaaga gatttacctc ttgcatttgt cgaagcaatg  120
gtagcttcca taaccataa aaaaggattc atcataaaat gttttcataa acgacaaaaa  180
  
```

aaatataaac gtatcctgat ttttcaactcc ctcactagct ttggctttca ctactctttc 240
 acaaaccctt aaagattaat aagctctgat atcattttga aaaaaacatt aaacaaaaca 300
 taaaatggag tttaagatca aatcataaaa tgctaccaa cacctgcaat aacttatata 360
 agggatgttt gttacgaacg ctactctatt gctatactac tactaag 407

<210> 18277
 <211> 343
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18277

ttcttggaat ccaaacatgc agtaaatac aatgaggaag ttttcaaac acatcacctg 60
 atattacaat atacaagcaa aactaacaag gatttgcaaa taataataat aataataata 120
 gtaaattaat gaatgaatga atgaataaat gaacgtactt gtgcattgta gcacatgcat 180
 gatacaagat ccataattta attatttgaa ttgaccataa acttgtctag aaaatcagaa 240
 aaaatggaaa aagaaaaggc caagatccat aataaaaatc aagatagaag agaagaggac 300
 ccttacgcta atctgaagaa gaagaaagan aaatgaattg aat 343

<210> 18278
 <211> 410
 <212> DNA
 <213> Glycine max
 <400> 18278

tcaacatcag accacgacca ggggtgctgga actatttcac atggacttga tggggcctat 60
 gcaagttgaa agccttggag gaaagaggta tgcttatggt gttgtggatg atttctccag 120
 atttacctgg gtcaacttta tcagagagaa atcagacacc tttgaagtat tcaaggagtt 180
 gagtctaagg cttcaaagag aaaaagactg tgatcatcaag agaatcagga gtgaccatgg 240
 cagagagttt gaaaacagca aatttactga atactgcaca tctgaaggca tcactcatga 300
 gttctctgca gccattacac cacaacagaa tggcatagtt gaaaggaaaa acaggacttt 360
 gcaagaggct gctaggggtca tgcttcatgc caaagaactt ccctataatc 410

<210> 18279

<211> 381
 <212> DNA
 <213> Glycine max

 <400> 18279

 agcttggctt gtgtagaatt aggggtacaca actttttataa taccaggggc gcagaattcc 60
 acagagacca caatgcctat ttcgggaaaa aaaactctgg aggaagcaag aggagcagct 120
 tttgcaagga tacctaagtt ttgtaatctc atttttatta ttattaaagg tttttctgta 180
 atggcttgct aaacaccctt gttggggatt tctaataaac agctgatgta attattttaa 240
 tatctattga ttgtgtttct tgtgttcaat gcttctttca gtgcttaaatt ttcgtatgct 300
 cttggcttag tccccattt gtgtgcatag ttaggtgact ttagcattgg gaaatgtatt 360
 gttgccttag aacttgaatg a 381

<210> 18280
 <211> 437
 <212> DNA
 <213> Glycine max

 <400> 18280

 tgacactata aatctcagct tccatacgag ctgtcctttg aacaccaga tgacctcccg 60
 gtgtggaaga atgatagaac tgcaggactg agtctgtctc atgatctgga atgcatcgct 120
 taatgacttg atcactgcac aatttccaca agtaggggtc atcccaaata aaatgcttag 180
 catcactttt aattttatct ttttgggcct tagatgctaa gggaggaaaa acagaagcaa 240
 ctaaataatt gacaatgtta gcaaaccagg gagtagaaaa agaatacagaa atactataca 300
 gtatatacaa atgatcatcc gagaaatcat cccgaatggg tgaattctca tcagacacat 360
 gttcgatccg actcaaata tcaacaacta aaatttgtgc tccgctccta tcaccgatct 420
 ccaagtcaaa ctcttgg 437

<210> 18281
 <211> 371
 <212> DNA
 <213> Glycine max

 <400> 18281

 attttggcca tagttttgtc aaagcctact aatcattgga taacaaaagt tgtaatagtt 60

actaaggagg ataagttatt taatgaacta atcagtcgct atgctcatag gggaaccatt 120
gatcctaagt atgatgtaaa ggatagacta atatttataa aagggaaatt gatgattcct 180
gaaaattcat ttttgagaaa ccagatttta caagaatttc atgacactaa attgtggggc 240
catgctggaa agactaaaac cattgctaga atttgcagtc aattttattg gcctaaaatg 300
caagaagata ttaagtgcta tatcagatgt tgcagtatct gtcacaggct aatgtggatc 360
aagcagtacc t 371

<210> 18282
<211> 401
<212> DNA
<213> Glycine max

<400> 18282
ttatacagat gaccacttgc gtattttcgc ctgcccttta acttcacggg ttattattga 60
cagagattga tgggtgcgcg tatatgacgt atatctctgc acgtcacctg agttcagagt 120
cagtgtgaca caaattgcgg ggcggccgac aaaagtgagt ctcttgctcc tacgtatcct 180
caatttgtga tgaggaactt aaacttacgg tattcttgat actgtgagac taaatagtct 240
cgggtgtttt tcaactacaat gcgaacatgc attagtaaag aaacaaaact tccaactgat 300
caaagcaaca tatgcttttt tctatgaaga caatgtgtct attgcggaaa gagagtgtac 360
tgataataat ttcacataac catatatgag attttcatga t 401

<210> 18283
<211> 361
<212> DNA
<213> Glycine max

<400> 18283
tcatttaata gactagatta ttatcctaaa ctagaataga gtttttctaa taagccaata 60
ataaaactaa gtgaaagcaa tgttgcaggt gaatgcagac cttgacatgg aactaaatcc 120
ccaagcacia ccatggccat atcaagcgaa gagccttaat agaattgttg gaaatggtaa 180
tcctcacaac atttgcaa attgcaaggaca catatcacta acagttccct cttcccatgc 240
taaattta at taagagcatg ttgttccagt ttttcttatt ttcactctct agtgtgctca 300
acataggaga ttatgtgact gctgacagaa gggtagtagt actagatcat gtatctatca 360

t

361

<210> 18284
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 18284

gatgaaacgg tggccttctc atggactctt tcgaatgaaa atagcagcat ttcttgact 60
 gaagttgtgg gagtaggaag ccatcttctc aatcaaattc ctaacctcag tatgggtcat 120
 atcaccaaga gctccaccac tggcagcatc aatcatactc ctctccatgt tgctaaggcc 180
 ctcatagaaa tactatataa ggagttgctc agaaatctag tgggtgaggac agctcgaca 240
 caatttcttg aatctttccc agtactcata caagctctct ccactaagtt gcctaatgcc 300
 tgaaatgtct tttctgatgg cagtggctct agatgcaagg aagaatatct ccaagaacac 360
 ccttttaagg tcatcccagc tgagaatgga tc 392

<210> 18285
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18285

agtgnttttcg catttttttcg cgtgtatgat atccactccg caagggttga agttgaagag 60
 accttccatc ctattacgca acggggggga caaaagtggg ctgttaactt gaatgggtcat 120
 tattgtcaat gcggaaggta ttctgcgctt cactatccat gttcacacat tattgcaact 180
 cgtggttacg tgagcatgaa ctactaccaa tatatagatg ttgtttacac aaacgaacac 240
 atcttaaaaag cttactccgc acaatggtgg cctcttggga atgaagcggc ctattctcct 300
 tctaatagac catggacact tattcctgac ccaactacaa ttcatgc 347

<210> 18286
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 18286

atcatcttac ttatacccca tgtcctgtca acaggatgtg tcttatcatt aaaaccaata 60

acaacctgtc aaataactac ataaggtata catattcttc gattattagc gaaaataatt 120
acagaaaaca acttcttgat tgatcatttc tgaaagccca aaatgttcac gtgataaaat 180
gttacctgct ctcatcata ccaatgagaa aatgttttgc tacaaacgat tattgatact 240
ttaatttgcg gtatctatac ctgagcctaa tattgatatt tcagagatac atatatgtga 300
agtgtcc 307

<210> 18287
<211> 358
<212> DNA
<213> Glycine max
<400> 18287

gcaatctttg gtggttttgt attccaaagc ttgtatgcat ctccagccat tggtaggatt 60
gtgtgggtcat acataccatc aagttcatat accctgatgc tcatcatacc aggccataca 120
gtatctccat ctcgagttac tgtatctgga ttaatatcaa gaatggatgt atttgaagtc 180
tgcaatgctg tacattcccg caacacagtc aattcaacca tattcttcct tttattataa 240
gaaaacccca tccttagcaa cagcaagtaa ctcatcataa tacatgagca gaaagaattc 300
caaatgaat atattgtatg agtaaaccta ttttatacct tgacagacac cacagacc 358

<210> 18288
<211> 428
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18288

tactcacgct tgttgtatta gtatcttcaa caactgattt caaacttgct taatttagtt 60
tgtgaagaag attattttaat tttttgggtc atattttatt ttctttaaag tgttgacgga 120
gaagtntatt caataagacc tatatgaaag tgagatgaac ccaacatttt caataggtga 180
aatgaactt atgcaattca gggtctatat tacgctgcaa aagaagttct aacaacaaaa 240
caatgaccat gaacaattca aaaatcaaga tttgtgactt gtgaggaact cagaggtgg 300
aataaacttc ttgctgagta gcagaatctg gaaacgctgc gtcgaaggta aagtggcgtc 360
cgcgaagcct attgagtcta atgtaatcgt tttcattagc aaactccgtg agataaacgt 420

cacggcga

428

<210> 18289
<211> 409
<212> DNA
<213> Glycine max

<400> 18289

gctcctccca ggatcctcta agtcgccttt tgcctgctat cttgacaatg gcctgctaga 60
ttttgagcct ctggtgcaga atgcctctga cgacttttaa gtctttatct gtaagacccc 120
tgtggacgac tgaagaggag caacctttgc caagatacct aggttccgaa atctcagggt 180
tcataaaaag aaggcgtagt tatagttggg gaactgaatc tccctggtga tttttatata 240
ttgaatatgg aaaatggatt ttctcaagga tcagggtcca tcattctatg cagacccttt 300
atgaaaactg ctagaactaa gatagatggt tatgcacgca cactgtccat ggagtttggt 360
gatataactg gtcattataa tattctggat gctatgacat acccatctg 409

<210> 18290
<211> 354
<212> DNA
<213> Glycine max

<400> 18290

gatcttcctt tcgggccttc ttggtttctc attccaaggc ttcacgggtg gccatatcga 60
cgtgccttag ttcatacatc tctcttcaaa ctttgatggc tatggacttg aacttctctt 120
tgactacccg ggctctttca agctttgcct ttaaggctag tacctcatca ctttcttccg 180
aagctttaac ctcatgtct ctcacagtat ttagaattgg gagccaatcc aatccttggt 240
tccggactct cagccactta tgatagccgc cgatgatccc attactgcat ccctaagct 300
ctctgttatt tcttcacacc gcatcaaag ccttgcaaac tccatggagt acct 354

<210> 18291
<211> 363
<212> DNA
<213> Glycine max

<400> 18291

ccctatTTTT ctattaatag ggggggaagt tgaaggaaaa aactgtcaac cttccgggtt 60

attcgagatc aattgaaatt agtggaaaaa attggttccg tgaagaaaat ccaagccgag 120
gcggttccgt aacggttctg ttacgtttcc gtgggtgatt tcgcgaagat tttcaaccgt 180
tctttcacgt tggtcgatcg gtctttgtca ttcttcggtc ttcaaccggt aagttctcga 240
aatcgaactt ttcaattcat tctatgtaca cttagtggtc ctcatattgt ttacggggt 300
tttattttca ttcatattact ttctgtaccc ccttttgacg tgctcttgtc atttacttaa 360
gtc 363

<210> 18292
<211> 397
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18292

tgggcccattg ataaataana gtatgtgata gacatgcaaa ttaagataac gtgagagagt 60
tgactgttag caaatcacac gtgatggttg tgtaacttat gtgtgaactt gtgcaagaat 120
tttgtttga tattttggaa tggattgttg gacctttatg tcatatttgt ttgctagtgc 180
atgcgggaga atagagactc acctatacac ccaacatttt tcagataaac ttatagatgt 240
agttcgttta tcaaagaaga aatggatttc actacatcaa tcactaccag tgtagatgga 300
cttgttcgtg aaagaaagac ctttcaagga taccgttaga cattggatga cccaaccatc 360
tcttagagtt ttgatgagga caaagatata aatatgt 397

<210> 18293
<211> 385
<212> DNA
<213> Glycine max
<400> 18293

agtcaccttg ttgctgcatt ctttctagct tttcattggg gtattatgat ctctttttgg 60
tgctctaaat tgtgggaatg tgctcaaata tgtggggcaa ttttggtttg ttttcttgct 120
tgattaggtt gaattggggg tttgtatggg atggccctaa gcctataatg cattttgaag 180
caatggggca tgccacattg tccccgttct cttgctattg atgcctaaac gcgcgcccac 240
caagtgtttg gtgaaatgcc tcaatggcat tagcgcgtga cttttgtaaa gaaacaaccc 300
atgggggcatt tcggtttgac atattttcta ttttttggga catgcattca ttcccaaagg 360

gctagataat ttccccacata tttct 385

<210> 18294
<211> 405
<212> DNA
<213> Glycine max

<400> 18294

tctagccaaa tggacttacc ttgttttaat tcctttgata gcccttttga gccttgtttc 60
cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat attaccatat 120
ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
acattgtata ttggttaa at gttggacatg ctgaatgaaa tgttgtttct caaaggctaa 300
agagtaaaaa aaaaaaaaaat ctaaaaaaaaa aaaaaatcta taaaagaaaa agaaaagcaa 360
taaagttgag tgaataagat cttaa atggc acaagaatga tgaaa 405

<210> 18295
<211> 229
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18295

ttatctattc gatcttagcg agagtgattc tcctacacgc ttgagcgaga caagaacacc 60
ctggctgtat caaaagacta tcacaacctt tgtgtgtggc cctagcagga aagagagagt 120
gggtccgttc tttcatctta ccctagttat ttgaaaccac aattccagaa aagccagctc 180
tgcccaaat tatctggagg acataactcc ngctctacgc actcaaatt 229

<210> 18296
<211> 353
<212> DNA
<213> Glycine max

<400> 18296

tctatatatg ctgaacgcat ttc atcaata cagcacttgt ttgagtatat attcgagaca 60
attataagcg ggatctcttt ctatcttaga tgagaagtga ttctctctga gattcttgag 120

tgatttagaa caccctggct gtatcaaagg actttcacaa ccttagtggtg tggccctcgc 180
 tggaaagagt gagtctgtcc ttcccttcat cttcacccta gatctataaa gccacaattc 240
 cagaaaattc acctgtgccc agaattatct agtggccata gctcccattt tacgcactca 300
 aatcaagtga tcctgcgagg ctacattgaa tttcataacc agacctttca cct 353

<210> 18297
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 18297

ttcttgcaac atatcaccta tgttcaccac tagggttcct tcacatgggt ttatatctat 60
 ccactctccc ttatttgatc tgacttgaag ccctcctatc tcatgttgat ataagatagt 120
 aatacaactc atatcaatgt gcatcccaag ccctcaact tgatcttcta taacttctgg 180
 agctgagtaa tcgtttaccc aacatatcca accatgaaca ctccctcata cttgattcac 240
 ttcttgtctg ttcttttggg tactttcatc cgatagtctt catgatgcaa accatttacc 300
 ttccaaaagt ttacctatac ctcaattttt gctactgcac atggtaattg gtaagcctaa 360
 caagtacatg gaaa 374

<210> 18298
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18298

tgttcattag attnttcaaa aattattata aaatattcca agcatcataa gcataaatgc 60
 ataacacaac aaatctattc tcataaacia caacaaaatc cgccgacgaa atttcttgat 120
 gataatgctt ttttgataaa ctaatcaacg acgctaagaa attgagttaa accttgattc 180
 ctaatcagaa acagaatcct caccatgaag cagttccaag gccactcgt cccgtcctct 240
 ctcgaaacct tcggcctcga aatcccccaa taactggact ccaccacgct cttctcagac 300
 tcggccttct ccttctccgg aaacttcgct tccgccggcg aagccatcgt cctcttcag 360
 tagaagaacc ctccattcgc gccgccagcg cagagt 396

<210> 18299
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18299

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ggcgatgacc ctggatgcct cgtcgannnc atgagtccat acganaactt tcgangtaga 60
naagctcccc cgcgttgata tgctgagttc tcctgaaggt atggctttct tgaacggcgg 120
ctatgcaaca tacatcggtg ttacgttttag atgattactg gtgatcccca aagaacccgt 180
gtatcggaac ctcatgtctt gtgttaagca agtcgattcc tacgctacag cttctatttt 240
ggcctttttt gacctatgtc gttgggtcatt acacttataa gtatctcctt gcctaccgtg 300
ccaacgcatt ttccgccaag tagacacacc catcctactg agcgcaccct gcacgatgct 360
ctggataaca ttgatgcaaa cgaccataca ttgtattaga tcaattaatg agacaacatc 420
catgctctac attggtataa taacatggtc gcatgagaaa ctagcccact acg 473
```

<210> 18300
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18300

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tatctttaca gcagattnta gtaatgaccc actaacctag aattaaaata acttaatgcc 60
attaacctag ggaattaaaa aaaacttaat ggctgagtggt aactgaaatt gtggcaacca 120
aaagtcaccc ccaacagcca acaagtcagc caccatttgg tctcccaaaa ggctgatgcc 180
tatgttgcca attggggcct tattacaact tgaactaaac ctaactaaag cccttttaat 240
tgattaaccc aaaacatatt tttgggtcagc caactttaca aggattgggc cattatttag 300
acaaactaaa cactctaaaa attgagacaa agtgggtgtca tttagtcct 349
```

<210> 18301
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 18301

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tagagaggaa gcttctatgg aggaagagaa tgagaatgag agagagagag agagagagag 60
```

acaatgacgt gggaatgaag gatagataag gagagaagtt aaactttaaa aagtgtgtct 120
 cacaagactc taattcatca aagttatgac aagtgttaaa tatgtgtcta tttatagtct 180
 agcacatgag aaacttcctt gagaagctag gaaggtagct tccttgggaa gctagaggaa 240
 gaaaactttt ttgagaagct agagggggct actcacaccc ctccaatcta agctcacccc 300
 catgccataa tacatgaaaa tacaatggga agcttctttg agaagcaagg aagatagctt 360
 ccttgggaag ctagaggaag acaacttcct tgagaagat 399

<210> 18302
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18302

agcttatgct gccaacactt ataatagacc cctcagcag caaaagcaac aacaacagaa 60
 taattatgat ctttcaagca acagatacaa tccaagttgg agaaatcatc taaatctgag 120
 atgggcaagt cctccacaac aacaacaacc tgtccctctt ttccagaatg ttgctggtcc 180
 aagcaagcca tatgttcctc ctccaatata gcaacaacaa caacaacagt cacaacaaag 240
 acaacaagca actgaggctc ctctcaacc ttccttagaa gaattagtga ggcaaagtc 300
 catccagaat atgaaatttc agcaagagac aagagcctnc attcagagtc tgacanatca 360
 gatggggcag atggctactc 380

<210> 18303
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 18303

catcacatgt ggtactatgt ggcggtcggg cgatggtgca caacaagttt tccacatcca 60
 caaagcgcgc ataaaccac catccctgt tgccacctc caactgagct cactactcc 120
 cactagccc atatcctcgt tcctctcaac actgggtccc catcaatcct cccaagcttt 180
 cccaacatcc aagtaatata acattcagac agcaciaatt atcacagcca agcaaaatag 240
 ggcaaaggca gaaaactctg cccaaaacac caaccaaatt cacagctttt ctacttaaa 300

gaccccagta ataattcctt cgttccaatt cgtaaccgt tggatcgact cgaaaatatt 360
actggaagtc tctagtactt aagcctacat tg 392

<210> 18304
<211> 387
<212> DNA
<213> Glycine max

<400> 18304

attctttgca gagttatata gtatacacac gagttcatta gaaggggctt gatcttaaga 60
ttgataaaac gcctttctta caaaagggtg tattctttac atggaattat aaagctaaaa 120
tataactaac taattataat taactgtaac taactaaaca attaacgaca gctcagctat 180
aactaacaaa actaacactc ttaactgaaa actataactg aaaaatgatt attctgtcga 240
cagaaattag tactcatgag ttaagactac tctaatttcc aaaagcatgc ttttgtacgt 300
cggctttttt ccttatgcac taggcaataa gcacatatat gaagttctta aagccatgtc 360
aatataactg gtatactatt ggagata 387

<210> 18305
<211> 373
<212> DNA
<213> Glycine max

<400> 18305

ttcttgttga cacgctgaga tttacgtcaa cttttgtgct cacaagattt gtcatactga 60
catttgagtc acgttgacgg gcggagatac cctagtgggt atccgtataa acattctttt 120
ttgctgtctg taaaacgaaa agcctgatag catgcagaga ctaacgtcgt cttctgcgcc 180
cttcgtcaat cgcggccgac aagcccgttg acacgcagag atttacgtca ttttccgcgc 240
tcacaagatc tgtcactactg acatttgagt catgctgacg gacggaaata cccaagtgga 300
tatccgtata aacattcttt tttcctgtct gtaagacgaa atgcctgata gcacgcagag 360
actaacatcg tct 373

<210> 18306
<211> 416
<212> DNA
<213> Glycine max

<400> 18306

tatgacaatt tgaaatthtc gagagcttcc gaagattaat ttcgagcgtc ttgatataatt 60
ataagtctga atcggacctc cgtgtgataa gttatgacca tttgaatthc tcgagagctt 120
tcgtttgttca atttcgagcg tctcgatgta ttatgcgcct gaattggacg tccgagttaa 180
aaggtatgac taththttatt tctcgagagc ttctgttggt caaththtgag cgtctctthta 240
tgtgatgcgc ctaaatacaga cththcgagtt aaaagttatg accaththgaa tthctcgcata 300
gctthtcgtta ttcaatcttg agctthctcta tatgtgatgc gccagaatca gactthctgtg 360
ttaaagttta tgaccaththg aaththctcga gagctthtcgt tgttcaathth gatatg 416

<210> 18307

<211> 356

<212> DNA

<213> Glycine max

<400> 18307

aththtgggat gaaacagatg tgattcatca aaaattacat ctctgctgag aagaactthc 60
ctthtcagttg gtgaccagat cctatagcct ttcactccat caccataacc catgaacaga 120
ccctthctac attaacatga taataagcat tgcagccaaa tactcttagg tttgagtagt 180
ttggtggtht gccattccat athtcaatag gagththtaag tcctatagca gtagaggggtg 240
ttctattaat tagaaagcaa gttgtattga tagctthctcc ccaaaaactt ctgttgagac 300
cagcatagga caatagacat cttgtthctth ccaggagtggt tctattcatt cththca 356

<210> 18308

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18308

tggatggaaa caattcacct caagcagtct ccanatggta tgacctathth aaggggtgcc 60
acaattcagg gaggaagct agttccaaca tggcataaga tggaatagag tcttattcaa 120
aagctagatt ttgggaagat ggatgggcag ctgatgggat ccctthtaag gaaaagtatc 180
ctagactgta cctaaactcg aaacaaaaaa aagcaatata tthtgcaat aggagacagt 240
tcaaaagggga aatgggaatg gtgtctacag tggaagaggc tathgttcga gactgaaata 300

agtatgtggg ctgattttct ggaggaaata caagatatta atgtaaatct ccagctatcg 360
gataaatggg tatggacaaa tgataccagt ggaaaataca cagttagaag tgcatacc 418

<210> 18309
<211> 349
<212> DNA
<213> Glycine max

<400> 18309
ttcttgccgc catttttttt ccgactatgt tcttgtgtgg tggaacacgc ttcaaaagga 60
gagagctaga aatgaagagc caatgggtga tacatggacg gagatgaaaa agatcatgag 120
gaagcggatg gttccggcta gttactcaag ggacttgaaa ttcaagctcc aaaaactaac 180
ccaaggcaac aaggggggtg aggagtatct caaggaaatg gatgtgctca tgattcaagc 240
acatatgaa gaaaagacga ggtaactatg gctcgatttc ttaatgggtt gactaatgat 300
atccgtgata ttgttgagct gcaggagttt gttgaatgga tgatttgct 349

<210> 18310
<211> 387
<212> DNA
<213> Glycine max

<400> 18310
ttgaacaacg gaagctctcg agaaaatcgt gtggtcataa attttcacac agatgtccga 60
ttcggggaaa taatatatcg agacgcacga aattgaacaa cggaagctct cgagaaattt 120
gaatggatcat aacatttcac tcggatgttc gatccgggga cataatttat cgagacgctc 180
gaaattgaac aaccgaagct ctcgacaaat tagaatggc gtaacttttc acgcgaatgt 240
tcgattcggg gacataactc atctagacgc tcgaaattga tacaacggaa gctctcgaga 300
aaattgaatg gtcataagtt ttcacacgga tgtccgattc gggaacataa tatatcgaga 360
cgatcgaaag tgaacaacgg aagctct 387

<210> 18311
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18311

cttagttctt agttatgaac agacacaatt cacatgcagt accgtttggt tcatattgct 60
gctggagaat tacttacggc agaaattgcc actggaagtg ataatggaaa gcgagcccca 120
cagtatatgg agaagggaca gttggtcctt gacgaaattg ttgcatggtt atgtatgtat 180
gtatgtcgtg actaatttct cttcaattct tgtttctcat atcatatcct tgcttctgtt 240
tatgctatat agatggtaaa gagcgtctct tgaaaccaga ttcnaaagag aatgggtggc 300
ttttggatgg atatcccacg agcttatcac 330

<210> 18312

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18312

ntgcgataaa atgtaatctc aatacatctc aggcctttaa atggatagat tacttgacag 60
ccctaagcaa ggtgcaaadc caatggtaag tggtaaactt gagcttataa aagctaagat 120
cacagttcat gacaatgatt cgtattatag caccacaaaa ttcgtattgt gctgcttagc 180
atgaggcaaa gcatgcaacc tgtaccctgc gcatcatctc attatggagg ccaatagggt 240
tcaatctgtt cactgctaaa aataatgcac gtaccagaga tgccccacta catcaaattc 300
gcacacactc cacaagttaa caaatcctgg tcttatttct ttactacttg tttcacatga 360
ttgaccactc cctatatcca ttctaaaaca ctcatatcat gcaactc 407

<210> 18313

<211> 373

<212> DNA

<213> Glycine max

<400> 18313

atacccaaaa tcttatctac agaaccaagg tctttcatat caaaatttct agacaagaaa 60
aacttcacat catttatgaa attcatttac taccaaatat caatatgtca tccagatata 120
taaaatgacg catccattat catcaaattg tttcacatac acacatttat cactatcatt 180
aatttgaaaa tcatacaaaa gaataactta atcaaacttt tgtgtcaatg atttggagct 240
tgtttcaaac catacaaaaga attaacaatt tatttttcaa gaaaaaatat tttcaaagaa 300

agtcacatct atagactcca taatagtacc attagaaatt tcaaatactt ctgaattaat 360
aattaagaat cta 373

<210> 18314
<211> 403
<212> DNA
<213> Glycine max

<400> 18314

tctcatttga tccaacagag gatgagcata caacctatct cactcaagtc acaccacagg 60
aattcaagca caagagactt gatcattgcc atcttgaaag aatgctaaac atgaaaaaaaa 120
gaaaatatgc aaaagaaaat tgaagaagtt tcaaattggaa gaatgcaagt ctgttagcac 180
accaatgaat caaaaggaga agtttagcaa ggaagaagggt gttgataaca ttgatgaagg 240
atattatggg agcttgattg gatgtctaata gtatctcact acaacaagat caaacattct 300
atttgctcaa aagaacaaaa ctggaatttt tgttgacaat caagtagcca ttgctattgc 360
aaacaatctc gtgtgtcatg ggaagactaa acatttcaac atc 403

<210> 18315
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18315

atgcgaacca ggaaaaatga aatgaacaga aaacgcttgt gggattatcg tctacgggcc 60
ttatacagag aaacgaatca aggacctaaa aagggtattat taaagagggt aaaaaaacgg 120
aaattgtaaa acaagaataa cataataaca gtattttact tgagtcataa cataatttct 180
tttatattta ttatttgata atcgatacac attataagta tttagtttta ctatttatat 240
tggttactag atataaaact tagacggaat atacgcgtta accgtaaaaa tcataaaaaat 300
gtctttcgat agataagtat atnttcatgc tagaatttat tgacacatac gaattttgtg 360
tatcatga 368

<210> 18316
<211> 401
<212> DNA

<213> Glycine max

<400> 18316

tttgggctat gtggttgctt ggtttatcac tctctaggga gcaatcatgc tcaattgata 60
gaggaggatc ttctccttag ttgactcatg cacgggaaat tgaagattaa ttgggtcaac 120
attattattg atgacatgat gaagaccacg atgattaggt cttttatgtg tccctatgca 180
atggtgatct caagaatcct tgattacttc ggagttgata cccaagaaga agtctttgct 240
tttggtgaag ttgaatttaa ggtgaagtcc aaagttttga agcagatggg gtaatcaatc 300
taaagcatct ggagttggat aaattgagat aaacaaagag gatcacacaa cacaacaaga 360
tctagaggag acgcctatga gcccttgga gcagatgatg c 401

<210> 18317

<211> 362

<212> DNA

<213> Glycine max

<400> 18317

atcttatagg agtcaacgtg tcatcatcca actcgcaatg tgacaaaact ttgacggtca 60
gctcaaccta tacaagctcg tacctcacia tccccaacgt aaagagagac cactgagct 120
taccaacac aactgtgaga ttaattgctt aaccggagac attaaggcaa tggcataata 180
atgatagcga ataaaggaaa gggagaagaa tccgataatt gacggtgctg tgcgtggagt 240
gtattgctgac agagatggac gccgtagcaa caggatcgga gctgaacaag tccggaagcg 300
gaggttcgga acgaagcgat gacagcggag gaactggacg aagatggata tttgagtact 360
ct 362

<210> 18318

<211> 407

<212> DNA

<213> Glycine max

<400> 18318

tatgacacaa ccacctgcac ctttataaaa cccacttggc caattcagtg gagaccaagg 60
ggtcatgaag tggattcaac taggactccc cgtgattacc atatatctct agggttaccc 120
ttttatgact actccttcta tagtagtgta agattaatag ttaaatacat gtatgaaaaa 180

aaaaataaca attaaaacta aaatattaca agatttttaa attaattata aaaacttcta 240
 aatataatatt catcaataaa ataaaattaa aaatatatat aaatatcata taaatatcta 300
 tttttgttat tccgtattta tactagatag gtatttggtt agggcaacca agtacttatt 360
 ggatccgccc ttctatagag acaaaacaat tatgcttatg agtaatc 407

<210> 18319
 <211> 372
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18319

tttttgttan gcatctaacg agctctggtg agtacacagt caagtaagct taccatcacc 60
 taatggaaaa gatgattcaa aatcaaggct cacgggtag tggaatctgg atgcatattt 120
 ggaaacttca aatcccacca aaagtcaagc atttcccttg acgtctcctt cgtcattgct 180
 tgtctactca agctcatctc caaacaaaag gtgtgcaatg tccttgctta tgtctttttt 240
 gtgataccaa cattgagaac gaatgagaca ctttctttgg atgtgattaa gttgtacatt 300
 atggggcagc tactggtcag tggaacacca tggctaggta tgttgatcag gcgaaaggaa 360
 caaatgaatt ga 372

<210> 18320
 <211> 366
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18320

gtatgataca gcatatgnnt tttctttctt ctatggtttt ttttgtacgt ttggatatat 60
 ttctaggctt actttgattt ttatgcagta tatatgccca tcaatgtgag ttaatgagtt 120
 ttcaacttca gtctcaggtg aaaagatgaa gaaataaatg gccgttgtag gtggtgtctc 180
 gctaagcgag gcatatgctc ttatcgagca acatctgcta agcgagacat catcccgctt 240
 aacgagttag gagaatctgg aaaagaatct gccatgcatg cacacgttca gtgtgccatc 300
 agctcaccca ccaagtagtt tgctcttctg gccctcagcg aaaaattact aactcgcgct 360
 tagcgc 366

<210> 18321
 <211> 361
 <212> DNA
 <213> Glycine max

 <400> 18321

 tattcttctt cacaatagtt tctttcagac acatcggttt gtttcaaaca ttaaatttat 60
 ttttacctaa aattagtctt gattttgctt attttaattg ttgaaatttg ctttgcttat 120
 gaggtgtttg acaaaaatgtt taatttctaa tagaatcaag gtcttttttg gtttaatttt 180
 ttagtttcag attttgtata ttgttccttt tttggtataa ggcttgacta ggttgcattt 240
 ttgtgttttg tttgaaaatg actttattaa gcttgaaaga cccgagaagc ttcttcacaa 300
 tagtttcttt caaacttcac accgatttgt ttcaaactg agatttattt ttatctaaaa 360
 t 361

<210> 18322
 <211> 354
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18322

 tttctttag aatggctaga catgatacat gtcagggttt ggtttggttc aaggataaaa 60
 gggatgcccc acattatttc catgacacaa atgcaaaaat gatgatttgg aaactttatg 120
 caaaactggt catgcatgca cctatgtgga cactcaagtg tcaaattttt atggatcatgt 180
 gatgctaggg ctcanattc atttcctcta ttttagtcaa cccaacgttt ccaaaatag 240
 ttcttttatc aatttgtgca ttcattccgag tccattntgg gcgtctggga aaatcttcac 300
 agcattcacc cttcangtgt atacacattt tttcaaaaac tagttatgat cagt 354

<210> 18323
 <211> 420
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18323

 gctatcagga cctatgaaac tcagcttnag tatgcccag tcattcatcc ctatgagatg 60

ttgttgaagt attggcgatc agaattgcc a ttccttggat tataggattg aaccaagctc 120
atgctttttac aaaaagggtc atcaagtcaa gttgaaatac ggaagtaacc gtcttgcaaa 180
attggggcaa aagatgaatc gagtcacatc actgcttcat ctactgccaa acatatttag 240
gattgttgat gtccttggtt cttccagttt caccttgaca aagttgtcat ggaccatggt 300
gaaaatctaa attgattcaa ccccatatcc tgcgtaaaaa ttcgcaatac ttcaacttta 360
catcattcgc atgcatccat gcttttcatt ggttgcatg ctcatgcat tctttccttg 420

<210> 18324
<211> 357
<212> DNA
<213> Glycine max

<400> 18324

atztatgatc cgttttctac gactgacact tgttactctg agctcttcat gatggtgaca 60
gtcttttagt accattctca tgctggaagt gaaaaagcat tttttttatt cctaataat 120
tgcttgctat ttattctgta gattcttatt ataagatttt cagtgtgtgg gcggacatat 180
atggttcagt tggccatggt cgcattctatg cgaatataat aacttgctga taatctttgt 240
cattgtttca gcccttggga aaaggccttt tgcagagact cattgtaaac ttatgtgcac 300
atagtggtag aagggccact cttatttatc atttgcctgc atgattaaat ctgaact 357

<210> 18325
<211> 424
<212> DNA
<213> Glycine max

<400> 18325

ctcaagcttg ctgccaaga ggctgcctt gccgccccta agcttttggt ccttctaaac 60
caaatactgc tatggaagca tccgcttcca ctgacaacac caacatgggt accatatcac 120
ttctttctac tctatagttt atgactttat tccttccctt tgcattgctt atgtgaaatg 180
tgtggattaa tatgaatttt ctgagtaatt ctgattatat gttgattttt gtgaaagaat 240
gttggattga ttctctaagt taaaaatgta gattaatcaa ttatatgaag cctttctcaa 300
agttaaaatg cagaattttg ttcagttaaa agaactttga taatcaaaat tcaaaatggt 360
ggattgattc ttgctgaaag aatgttacta tgctccacat cagtaagccc agaattaaat 420

ctgt

424

<210> 18326
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18326

atcttaaaga tgctccaaat taagatttca accactcgtt tcagagtctt aatttcatta 60
ttagattcta catgcatgta cttgtgtata tttcatgtgt tgttgcatat cgtaaagata 120
ataaataaat taaagtagca aagattacaa cggttatgct tactagcata tttggaatat 180
tattaaatag aaattntatt aaaaatataa taaatatact gataatatta aatgtttatac 240
acattttaat acatattttc atttaatggt atagtataat tatccatcta tttattcagg 300
ggtttggatc aacctctgat ccaaccgat tcaatccaat taaattagat tgaatttttt 360
aagtgtttaa gtcaaattca attcaac 387

<210> 18327
<211> 433
<212> DNA
<213> Glycine max

<400> 18327

ctatagacaa ctcaagcttt gaacaatata cttgcccttc atttaactgt ctctgtgtct 60
tggcggctac gctcaacaaa gtacttcgac acctactgta cgttgatctg acctatgttg 120
ttatgggaat gttgcgacaa tccttcaaaa ccttattgat acattctgag aggttgattg 180
tcatgtggcc atatcgacgt ccttttctat cataagccat cgtccatttt tcctttgaaa 240
tgcgatcaat ccatgttgct atggctggac tcaattcaca aaatttttct aaatttcgat 300
aaaaaactgt gcttgcaagg agtgtatgct gcataaaatt acttatgaat aacactttta 360
agtctatata aaagttacat aaacgtcacc atcaaatatg acatcttacc caatttcttc 420
aacatttctt ttt 433

<210> 18328
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18328

tttttgcgtc cagtgcactt tntggcatcg tattgccccaa aatcctgagc caacatcaca 60
aaaaccaat tacatccaaa ataaaagtta cattacatgc catatgaata ttaagatctg 120
aattcagaga tgacaatata gtaataccaa acaaaattga agaaactttt cccaatataa 180
ttttttgcca acagaaatag gagcagagggc atgacagaaa tccataaaaa tttcttaatt 240
ntttttctaa tgcaaactga ttagttacca taagttttga tgaanatgaa actggtatta 300
ttgtgaatca caataataac agtaaaagac gaaccanacc aatccacctt ataaaaacag 360
ttcagt 366

<210> 18329
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18329

tgtctttgta aacgtatgct ttgtttaata aaaattatat tattagcata aacattgtag 60
aattgtacta ataatatgat gtatcataac gtaccaatga catgtattaa tttcctatac 120
caacaataga tgtcatgggt agtataacat gtaataatgt tagtaggata accgtttaat 180
ttttaatata taaagtctaa actaagcata ataagcccaa agattaacat ttttttcctt 240
agtatatgaa tgtgtgaaat ggaattgaac tattgtattg atagtatatg agtgggtggga 300
cacacctgat ctttcgctaa caaagtgtcc cagtcgttat cctccaacag aacccttggt 360
tcttcataac ttanagccac ccgataattc aaatctccaa gccatattat tcgactg 417

<210> 18330
<211> 346
<212> DNA
<213> Glycine max

<400> 18330

atcttcggaa gcagaacaat cttgagcatc ctctatctga taacattatc aaatcaacca 60
tttttgctag tgttttgcaa tcataaatca cataatttta gaatagctcc aaataaattt 120
catcaaagat caattaactc ctattgcctt agatgggttat aacagtttct ctgataaaga 180

ctggttgggtg atacttgctg gcagaggata tatgcaagac tcatagtata cttaaatttt 240
gacagcaaac taagtttaag taaaatcaat ctaagttata actcacatac atttaaatat 300
agatatttct gtagaaaggt tcgagtaaaa tctatctatg attctt 346

<210> 18331
<211> 407
<212> DNA
<213> Glycine max

<400> 18331

tgggtgaagta ggagtgccag cgggtgattac cgtattgggg agattactga caaatggttt 60
aaacattgtt gagagttgat gggaagtga attggctgaa tggctgatct agcagccagc 120
ctttgaagct cagttctcgc cttgtaagcc acgccacgaa ttaaatggtc tggcagtga 180
gccaacttca ccatcttttg ctcaccatgg tcttggagaa ggagataccc tatgatcttt 240
gtagtatgct caggctcaaa tctttgaagt ttatcaaaaa caatcctcgt gtactccgaa 300
atatccatag cttttcgtca ctgcaagaag tcataacaac cttaacagag atgaacaagc 360
actggtgaga aaataggcat agagatacac aattgcagat tgagcat 407

<210> 18332
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18332

aggggtgggga ggggtgcgaat gtctgaccaa gagaggaatt ggaggaggac gtggtaacga 60
aggatgttgg caaggacagt caaggagaac tggttgtcgg caaaaaggta ggagttgaag 120
acgatgagaa tggagaggga ggatgagaga tccgttatga ggggcatggc agaggtgaga 180
agagagatga ataaggataa tattatatatt ctatttttgt tagacaatga acaagaagtc 240
gtacccaaaat ttagtgagtt ataagttttt aggtatttgt caagtccatc attntttttt 300
attttgtact attcctcaat cattttttta atcaaacatt tataaatatt ctttttggt 360
tccaatctct ta 372

<210> 18333

<211> 404
 <212> DNA
 <213> Glycine max

<400> 18333

tttggacatt tattaattgg gatcttaatt attagcatgc tccataaatc caaagttaag 60
 gagtaaaata tcatttatta atcactaaca cccaccacat cgtaggcgta cgtacgtggt 120
 cgccttaatc tcttgtaaag agattaataa gtcaacaacc agctgtgatt ttatcttttg 180
 taattattca tagcagggca ttttagtggt gaagtagaag tggttgcagt ttcaagagaa 240
 ggccacaaat ggaagataag aggcacagct ccaactaata aaagccgacc ttgagcctc 300
 aaatggctcc gatcagaacc cccaacagcc actggacca ccccttcacc accgtgtcct 360
 aataccagtc attcttggcc ttttaccac gaagatcata ctcg 404

<210> 18334
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 18334

ttgcatgcaa gtttatatat acgaccatca aatcaggagg gaaccagact cgttatgcgt 60
 ccatctatcg tagcaagaat tgcaatctgg ttatgttttg ccttgcataa aatataattg 120
 tgtaattata ttagcttcta gccttctaca aaaattactt aatgatctgt gaagtgaagta 180
 ttatattgtg gaaatattga tgtggctatc gggaagggat cttctgcatg gtgaaggatt 240
 aattggagga gccacaatta ttctcttctg ctgcataccg catctcacia 290

<210> 18335
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 18335

ttctttgaat agtatgaaag accctccctt ctactttgta aaatagattc aatagaaact 60
 aggaaaataa acaaataat tgcgccgagaa ataggagaga gggatttgaa cctcaatag 120
 ttcttttttt cgaactatat tgattttcaa gactgaagtt gtcaaccact caaccatctc 180
 tccaaaagat aatttatatt ctatatatat ttcatggaat aaaacatgag catataaatt 240

gatacttatt atgtgtgtac ccataagggg tgaacaacta ccaaggggat ggctgagaac 300
 cttttcgggc aaagccaaac acccccagcc ataaccagat atcccaaggt gactaattac 360
 ccctcgggct 370

<210> 18336
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18336

ctgganaatg atttcttttc aaaagttagt cgtattatgc gactaacaaa ctgcaaataa 60
 agcaaacaaa gaatggtaaa tttattagtc agtcaaaata ttgcaaagaa ctaactaaca 120
 agtttgggat ggaaaatgct aaacacatgg ccactcctat gagcactgcc tgctatctgg 180
 ataaagatga aaccgatcag tcaatagata taaagaaata tagaggatatg atcagatctc 240
 ttctttatatt atttgcaagt agacttgata taatgttttag tgtttgatatg tgtgcaagat 300
 accaagcaaa tcccaaagaa tctcacctta gtgcagttaa aagaataatg agatacttat 360
 taggcactat aaatctatga ttatgggtatc ct 392

<210> 18337
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 18337
 ttttaagcct aagatactta tctgtggggg gagttcgtat cccaggggaat gggactatgc 60
 caagttcaaa caggttgctg ataagtgtgg ggcagtggtg atgtgtgata tggtcatat 120
 cagtggtctt gtacgggcta aggtgatttg aattttctgt cttttctctt tggtcttggt 180
 gaattatggt atcgatttta tggttgttta tgcactctgaa ttagttttct ttggagtgt 240
 gaggcagatg tattgtatgc tctagaacta gtatagatgg agttgataga acaatttacg 300
 tgcoctgtact atgaaccaac atcttcagac ttattcctgt cttat 345

<210> 18338
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18338

tgtttacaat gtccttttaa tcttattgat acaatatacg caacaagggt taattatgct 60
 taagctcgtg ccttttgag caaaaggatc catttgattc ttatgtacta ngattgcaaa 120
 aagtggaagt agtgagtttg ttctgattgt tctgagatgc aattttcttt tgtttgccagg 180
 tcagatcact ggggcaaata ctacaattcc tggaatgttt ccaaataatgt ttccgttggc 240
 tacaagtcag gtattttttg tttctttttt cccagctatg gttatttagt gtcaagttct 300
 tattaatttc actctattct tgtttttttc cttcttaaga tgcagcaatt tagtgctctc 360
 cctgtcatgc cagtgcaggc tatgactcaa caggtaaaaa tgc 403

<210> 18339
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18339

tttgcattgca ttcttgaact tttaaagcgt aaagttacgt tactgtgtta tttattaaga 60
 ttaatccttt agaaagcgta aacatgttgt tgtgcttgaa ttatttatta aaattaattg 120
 tatgtttatt ttggtattta agcatacaat attaagctaa actaaataat ttatgcatat 180
 taaatttaat ggttaagagt ttatatgttt caaatattag ataatacatat gcatataata 240
 tttatttaat tctgaagttt tgtgtgtatg atttatgatt ttatacatgc ganattatct 300
 tgaatatnt atacaatatt atttggttta ttacattat ttaaaatatt atataaataa 360
 ttagc 365

<210> 18340
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 18340

tcctattctt ctggtgaagt aaaagtgaga ttgctatgat aaagtagttc ttgatctgat 60
 ttacaaagcc atggaaccag caaagtcact ttctgctttg cagattgtga taaatatgca 120
 gctcgaaata gcgggtttac aactgttccc gtcacccaag gaagagtatc agttgtcact 180

attgcaacat gtctttcatt gtccaatgga tgatgctttg catgggtctgt ccataatcca 240
 ccttcataacc agtgcctat gctctgaagg acacttgta ttggtaaata caattgatca 300
 tttatgtttc cattccctag aacagaagat tcttcccaa agaggggaata acaaatcgag 360
 taaatcttaa actgtataaa ctagctgact gcctataaaa ctac 404

<210> 18341
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18341

tttgcattgca ttctttgatg atgtcgaaaa taaatcacat gtttgtcatc atcaaaaagg 60
 gggagaatgt gaatgtatgt ataatgatt ttgatgatga caaagaagaa tcaaacagg 120
 ctgcttcaaa tgataagcat ttgcttcaag attaatcaaa gattgcttca acaaacagg 180
 ccttgcttca agattcacta aagaccaagg cttgccttan acaaaagtgc tttcaagaca 240
 tgcaaggctt tggtaatcga ttaccaggaa gtgtaatcgg ttaccagaag acagggttga 300
 gaaatagctg ttgaaaaagg ttttgaattt gaattttcaa catgtaatcg attaccatat 360
 gtctgtaatc gattaccagc aacga 385

<210> 18342
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18342

ntcataagtg aagttagggtg caaccatctc cctaagagtc cgctcacgag gtagagatta 60
 agccatgttc tcagtatgaa aattagtagc cgaatgctca aaattagaat gttcagaatc 120
 accagcaaca gaatgcacaa aatgatcagg atgcacacta tgcttaacta atctatgaaa 180
 gggtctatct atttcaaaat caaagggttg taaatcacct ggattgcccc tagtcatgca 240
 ctatatgcaa caattcatgt atttctcaa taagcaccaa agggggtaaa actacaatta 300
 tactcaaacg ataaatgact tgaaaatttg tgagaaacac ctaaaatca tgaaaagata 360
 gcacaaaaat tttcagacaa aaattcaaag tctgactatg anaaat 406

<210> 18343
 <211> 317
 <212> DNA
 <213> Glycine max

<400> 18343

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atcttttcct ctagctgttc tgataaagtt gtccaacggt atagaaggag aagagattga 60
agccttcatt ctactggctg catgcaatga atatttcttc ctaacaagat caattttcaa 120
atcgcaacgg tgaaaatatg cagaaatgaa tatcgaacca ggtgtcccaa ttccacaatg 180
atccaacggg taatgagtct gggattatag ttttactatg acaagctttg ggtctctgca 240
ggacaagaaa aagttaagat gagaaaggaa gttctctcac ctccaactct gattcgcaat 300
ttcatcgggtg agaatac 317
```

<210> 18344
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18344

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ntagattagt gattacatga aagagtgcac aatattttat aagcattgag tttgaaatgc 60
gatagatatc aaagtgtgaa tacatcctaa aatacatata atggaaattg atgattgaat 120
gttcaagcaa aatgtctaaa aactaggcct acccatacat atacgaaaga tagagaacac 180
actagtctca aagcagtcac cactaaaccc aaacccatgg caaggaacta cacaaacgtg 240
ttgagataag agctcaacaa ttagaagagc ccccataatg ggactcctga gaggaacat 300
cacacatgac ctcatcaaga tcctctacag gaccctcatc attgctctcc ttaatgagcc 360
atctgtctct tccctaagga aactctctac t 391
```

<210> 18345
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 18345

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tgtcttaaca tcagaccact tccaggggtg tggaactact tcacatggac ttgatggggc 60
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ctatgcaagt tgaaagcctt ggaagaaaga ggtatgccta tgttggtgcg gatgatttct 120
 tcagatttac ctgggtcaac tttatcatag agagatcaga aacctttgaa gtattcagag 180
 agttgagtct aagacttcaa acagactgtg tcttcaagag aatcaggagt gaccatggca 240
 gataatttga aaacagcaag ctactgaat tctgcacatc tgaaggcatc actcatgagt 300
 tctctgtagc caatacacca caacaccatg gcatagttga acggaaaaca agactt 356

<210> 18346
 <211> 365
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18346

gttgctntct cttccatgtg gcgactcggg atcctctacc accccatttc tattgttggt 60
 acagtcgggc cattcttgcg ccgagatctt gaccctttt gctaactctt gacatggagg 120
 ggtatatccc agataataga gacgacttcc ttccacctat cgggcatcgc aggatccctt 180
 caaactctac tacggttggt attaactgaa agtcccccaa cgtgaagcac cttaacgact 240
 ggtcgtaata ttgagtgagg gatgcaatgg cttcaacaaa cacttctatc atagccaagt 300
 cctatagggt tccatgtctt gcggaaggct tgacgatgaa gaggatccat tcgttacctt 360
 agctc 365

<210> 18347
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18347

ttcttctcaa gcaatcttcc atcatatagg acactaccaa atgccaaatg gtgaatatga 60
 gtaatcccta gaaagctaag ggaaaaagct acaattgttt taaaaataag cttaggccaa 120
 ttcttttggt ttgagggtca ttttaggctt ggaagtcaga gcctttgcac ttggataatt 180
 gggctgcgaa attagggttt gctttgtgta attagcttaa ttagatagat tagatgggcc 240
 taatcaagac ccatcttttc ctccaatta gtcacaatat atattagtat agttagttag 300
 ttatttccat tttgtatgaa atagaattta gaaacttctt ttgcaagctt ttagaanaaa 360

ctcttttctc tctttttctc tc

382

<210> 18348
<211> 425
<212> DNA
<213> Glycine max

<400> 18348

actcacgctt ctccattca ggtctcttgt catttggaac gaaatcagaa gctttctcca 60
agtggcatg atgaccttga tcgagaaacc aaagtaccac ggaagcagac catgagggat 120
aattcttcca attcagctta gcagtagtga tggtcggagt cccagagaag gagaaaacgg 180
gtccagaagt agccattttg gccacaaga tgaaacccta aaggggtaaa aaagagagaa 240
gaatgggggtg atacgttcca ggcaacaaaa ctcaaaactg agggctggaa cgaactcaga 300
agaggccgac gagcagatag gtggcggcac ggcgcaattc cggtgacggc atggaggcgc 360
gtgggcttca cgcgccgaag aacgcgcgtg agaaagggtg cgtgtggaga ctcctttggc 420
ggcac 425

<210> 18349
<211> 380
<212> DNA
<213> Glycine max

<400> 18349

tgcttcaaga attattttga tgatgctaag gaatttcaaa gatcattcaa gatggatttc 60
aaggatgaag aaagcaagat gtcaagcaaa agaaaagatc tcaagataag aattaagata 120
aactcttaga aaagtttttg aaaagcacia ctgattggcc aaatgagttt ttatcttaac 180
aaaaattttg caaagcattt tagtctctgg taatcgatta ccagaaggta gtaattgatt 240
actagtagcc caaatatttc tgaaaatggt ttttcaaagg tgtaatcgat taccatggct 300
ttgtaattga ttaccagtgc ttataacgtt caaaaataat ttgaaaaacc ttgtaatcga 360
ttacacaaaa catgtaatcg 380

<210> 18350
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 18350

tgttaacatt ggtgttttca gtaacattgg ttttctgtaa aaccaatggt aacacgagtt 60
 tgttaacgtc gattttttta aaaccgatgc taatgaactc gtgttaatat tggtttttta 120
 tcaaaaacca atgttaacaa acttgtgtta tttacgagat tgcccttggtg tttttgttaa 180
 catcggttct tggtaacaact aatgataact tagcgatgct aaaaccatta tttgtagtag 240
 tgtgtgaagt gttcaagtga caaaattcta atgaatgcat gaatatgtca aagaacctca 300
 cagaattgaa gtggcacaac agacacacaa gttgtaagct ggtatttttt attccatgat 360
 aganaatagt gaaaacaata aaataatgaa atgaaaataa tatgattttt ataatta 417

<210> 18351
 <211> 301
 <212> DNA
 <213> Glycine max

<400> 18351
 ttcttggttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgaagaa 60
 cgtcgaagaa cggttgaaat ctttgcgaaa ttcctcacgg aaaacggttac ggaaacgttt 120
 cggaagcgcc tcggcttaga ttttcttcac ggaaacaatt tttccaagca aattcgaaag 180
 agagagaagt gccaaagggg ctgaaccctt tccttcttca ctctctcccc tatttatagc 240
 aaaatagggg aggtggttgc cgcccagctc gcccaggcga gctcagctcg cctaggcgag 300
 c 301

<210> 18352
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18352

cgctttgaga aactcanatg gtcattactt ttactcggga tgtccgattc atgcgcatca 60
 catgtcgaga cgctcgaaat tgataaatgg aagctcttga gcaattcaaa tggtcataaa 120
 ttttactcgt tacgtccaat acaggcgcgt aatatatcga gaggtcgaac attgaacaac 180
 ggaagctctc gagaaattca aatggtcata acttttctact cggagggtccg attcatgtgt 240

ataacatatc gagacgcttg aaattgagca acggaagctc tcgagaattt caaatgggtca 300
 ttacttttca cttggagggtc cgattcaggc gcataacata tagagacgct ccaaattgat 360
 taacggaagc tctagagaaa ttcaaattg 388

<210> 18353
 <211> 356
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18353

atctngacag gtttatgtgc aagtgtgtct actggtggag gcacttgaat ttggttgcca 60
 gacctcaagg tgatggcact cacatttttt ggattctgca aagtttgtga agtcaatttg 120
 tcagaatttt gggactgagc ttgattcatc tgagtagcca tctgccccat ttgatttgct 180
 agactctgaa tggaggctct tgtctcttgc tgaaattgca tattctggat ggtcatttgc 240
 ctactaact cttctaagga aggttgagga ggagcctcag tttcttggtg tctttgttgt 300
 gactgtgtct gtattggagg aggaacatat ggcttgcttg gaccagcaac attctg 356

<210> 18354
 <211> 420
 <212> DNA
 <213> Glycine max
 <400> 18354

tataatactc agcttgtccg aaaatactaa aaccgtttaa gttctcacct tacactgtcc 60
 tctttgcttt tgtcgggtta catggaccgt tcaaaagcat aaaagtccat acatcacttt 120
 actgcctttc gcgagaacta cgtaggtctg atttctctt cgatggagga cacgtaggag 180
 caaaagcccc gcttttgtcg acctcgtgag atggtttagag gtccaatgcc ttagctttct 240
 caccaagtaa aatggatcat tttaagggtcc aatgccttaa atgacccccct tccaagtaaa 300
 aagaatcact tgattcgccc cttttgtaag aactacgtac gtctgatttc cttatcacia 360
 ttgaggaata cgtaagagca agggaaacac ccttgtcgac cacataaaga taaaaaata 420

<210> 18355
 <211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18355

tgcttcagac caaggcaact caaaatctag gtatctaaaa cccctcaatt tagtggattt 60
tcaaggtttg agaagtgaaa atgagaatgg ggtaaattta gagcaaactc tcacctcaca 120
caagtctata accttaatct aaacttgctc aaactggttt ttcacctaaa attccaccaa 180
atcaaaaattt gactcctcaa cacctaattt taccctagaa atggcttttg ctttcacttt 240
ggctttttgt ttttctctct tgcacagccc aagctttctc ataagtccta aatgacattt 300
caaaactanga ctaactcact ttaacctcca atttctactg 340

<210> 18356
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18356

nttcctatgg ttgttctact agggtttcca agcatcatag agaaggagaa gggattagag 60
ccaccatttc actatctccg tgtgagggaa atttctctct ctatagacat tatttcacaa 120
atcccaacag tgaaaatttg cagaaatgag ttcctaacct ggttttcaaa tttcatgatg 180
atctaattgg taacgagttt gagatcgtag ttttactcag acaaatttgg gtgtatgcga 240
gaaaaagaaa ggattttgag agagggagaa gggaaaacga atttgagagg aagagagagc 300
gtaaagacat atcgtaaattg taaaaactaa cctaatatgt ctttatttat agttagagtg 360
atctcagcct attatttact ctatttttct taaatttata aaaagaaact ctatttta 418

<210> 18357
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18357

ttctntagac aaaggacaac agtggaaatc aaaatcaaaa ctttattgtc gcttctcttt 60
aattctacca ttggaggtaa ccctaacgac tgcgtgtaga ttttaatcat aaaatcattg 120
ggccctacca attaacattg atttgggaaa gttgcctagg gtgtgaaaga aacttttaggg 180

ccatctaadc aaatcataga agaaaaaaga taatacaatt aatgcaatga agaacttgct 240
 cttattaatc aatttaattt attatagtta aactcttggc aggagacaag ttcctctcat 300
 aatggacgaa gatgggtatg atttctgctt tctgtcaaaa gctatacttc aataatgaat 360
 acagcttcaa ccaaaaa 377

<210> 18358
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 18358

ttctcataag taaaaaattg gtacacccaa aaatacaaat aattggccag ctttacataa 60
 ttattccaag ggtcttgctt aacttttctg aacaaatcat tgctgcttat atgtaaagaa 120
 atgaaactga gtaggatttt ggcaattctt ctgatgctgc catatcttga aatggatatt 180
 ataccattct gggagatcac aagttggttc cagtctagct cttgcttccc aaaacatggc 240
 tgcgatttac agaagcttct ctttgatggt tacgcatttg aagtctaaat gttaaaattc 300
 cccttcatat ttgtgataat ggaatggagt ctgtgttggt tctgaaatta ggtgaacttg 360
 tcccgtatca ggg 373

<210> 18359
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 18359

ttcttttatag ttgaaagcac gagtcaaggt gtgaatatat gagggacgac tgaacagatt 60
 ctttatgata aaagtacggg agagctatgc gggttttaag gagacgaatt atttactggc 120
 ttatatataaa catattatac gtataggata tattaatttc tgattaatgt gattttttata 180
 tcatacatga tcttcttgat taaatttctt atttacgata ttctgtttca tataccattc 240
 tttgtttgat ttgacattaa ttatttttctg attgtataga ttctgcactt gct 293

<210> 18360
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18360

tctgtgggtc cggatgcgtg tggcagaacc tggaatatgt tgtgtagtgc tccccttgct 60
ccaaaaccac catggtctcc aagaatgtgt tcagtgactc cctaacaaac tttatcaact 120
tgtccatgtt gagatcggac gtatgagagg tgggggagag gttggagtat gatagcacat 180
tccaggtctg ggcaagtgtg gtaaggtcct tcctcagaag cttccaagggt gcgccctcaa 240
cgttcagaac aagtcctcac cttggaatgc agagcttggg tgcaagctct tgtggggttg 300
gatgcgtgtg gcagaacctg caatatgttg ttagtgctc cccttgatcc anaaccacta 360
gggtctccaa gaatgtgttc agtgactccc caacaaactt tatc 404

<210> 18361
<211> 344
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18361

tgttgcatgc aatctnttcg caaagcttac ggtaaaatat gggacctaac catggtagaa 60
gtctccacag aggccattgc ctccctcgcc cagtattatg atcagtcggt gaggtgtttc 120
acctttgggg acttccagtt atcacctatg gtggaagaat ttgaagagat cctaggatgt 180
cctctagggg gaaggagacc atacccttcc tcagggttct atccctcatt agctagaatt 240
tataagatag tccaaatctc agcgcaggaa ttagaccaca gaaagcaagt cgaaaatggg 300
gtggttgga taccgagaaa atgtttggag gcaaaagcaa gaat 344

<210> 18362
<211> 394
<212> DNA
<213> Glycine max

<400> 18362

tgtaatcgat tacacacata ttgtaatcga ttactatagg agtttttcag aaaacattct 60
caacagtcac atctttttgt gtgggttcttg aatggctatc ataggcctat atatatgtga 120
cttgagacac gaatttcata agagtttttc agaacaaaaa gatcttatcc tcttataaag 180
caaaatcggt ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240

ttatttgagt gctcaaatta ttcaatctat ctctttcaag agagatttct tcttttcttc 300
 ttcttcattc tgaaaaggga ttaagagacc gagggctctt tgttggtgaaa gaattctaaa 360
 cacaagagaa gggttgtcct tgtgtgttta gaac 394

<210> 18363
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 18363

tttgcattgca atcttgccac ccagctcgtt caggcgagca gggttgcttc ctccagaagc 60
 aacagccttc tggaggaatc ttctggaggg cccaagtggg cctgggttgc atttgcaccc 120
 ccattttttac taaatacacc ccctgccctt tttttggtga ttcttttttc gtaaagttac 180
 ggaaacttac ggatttcgca acgatacttg ttttctttcc gtaatgttac ggaaccttgc 240
 ggattacata atcatcccc ttttgactta cggaagggtta cggaacctca ctaattgtgc 300
 aacgatgctt gcttttgatt tccggggcgt cacgaaacct taccgattct gcatcaatac 360
 cttcctttga tttccagcat gt 382

<210> 18364
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 18364

tctcaaaaga cttgtgtaat caattacaga tagttgataa tcaatcaaaa tagagaagtt 60
 ttatatattc gggtttttag aaaatatatc tataactcct cctagattct cttaaaaaaa 120
 taaattggct attattaata gtttaatat acctcctaaa tattattttt ctacttactc 180
 attttattta aaaatatata taataaattt ttttaggcta aatactttct tctttatata 240
 aattttctat ttagttatta tccgggattg tccaaaaata ccacctacca tttctttaaa 300
 aaataaataa caaatatttc tttctttaat attgcgcata attataaaaa tgggttgaaga 360
 ctcaaccatg gccaaattag aagcctctaa aggcatagat attta 404

<210> 18365
 <211> 376
 <212> DNA

<213> Glycine max

<400> 18365

ttctttgatg caacatttgg agaggttaat gaaacaacaa gatgatgcgc tccatgagag 60
gttgatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
tggtgttcct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
aaagaatgat ccggaggcct acgttgagtg ggagatgaaa atagagcatg ttttctcatg 240
caacaactat gaggaggacc agaagggtgaa gcttgccgcc acggagtttt ccgactatgc 300
tcttgtgtgg tggaacaagc tacaaaagga gagagcaaga aatgaagagc caatgggtga 360
tacatggacg gagatg 376

<210> 18366

<211> 407

<212> DNA

<213> Glycine max

<400> 18366

tgtacattca atttcgagcg ttccgatata ttacgttact caatcggaca tccgagtaaa 60
aagttattgt tgtttgaatt tgttcagagc ttcaacattc aatttcgagc ttttcgatat 120
attacgggac acaatcagac atccgagtaa aaagttattc tcgtttgaat ttgctcaggg 180
cttcggtaat ccatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240
aaaagttatt gacgtttgaa tttgctcaga gcttctacat tcacattcga gcttttcgat 300
atattacgga ctccatcaga catccgagta aaaagtgtt tgcggttgaa tttgcttaga 360
gcttctacaa tcaatttcga gcctttcgat atattacggg actcaat 407

<210> 18367

<211> 285

<212> DNA

<213> Glycine max

<400> 18367

tgcttgagcc agttccaaat cactatgttg ccttgagcca tccccgacaa cagttcctga 60
gccataaggg gaccacctt tgaccttctc catctcatac atgccatctc caaatgtgta 120
cccaaccgga acataaatca ttccatggag aacaagctga gtgacagagg tcaacgggggt 180

ctcttcttgt acacctcctt gagaactagt gcttgagaag aaccctgcag gtttttctgc 240
tagtgcctgt gtatgccaca gccctataga gccttctaaa aatgc 285

<210> 18368
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18368

tctctttctt tctccatcaa caaagntacc atcttgagac tctttgtctc tgtctttctc 60
atgcattgaa ttcctcaaca acaatgcaca gaatgtagaa catagactag gttatcaaga 120
aagggaagat ggagtttgat cttgaagacc cactagtcag cttggaagaa gagcaaacct 180
ttactatata agaactcttt gcctccgaat ctgaacacgt gccctcacca aactgcttaa 240
gttcaacaca ttttcacgtt ttctgtggtg aagccatata tctcattctt cagggtgaaag 300
ttatgtctat gtaaaagggt cagctcccc tccttcatgc cacatttgct acattatggt 360
atattgttat gtttcttcag gttcagggtt cttgcacatt 400

<210> 18369
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18369

cnagaccggc acaangcgca aacaggcgca aagangaagg ccgncgcgga acgagngggg 60
agcgngcacg cgaaaggaaa anngaacaga gaagacacaa caccaacgaa gaaaggcaac 120
nctctaactg acaggtggaa gaagaatgcc tccccatata atctctcaag aaggcattta 180
ctatgcctct attcgcagac ctataccgcy ccttacaaag gcccttaatg cctgacgcat 240
ccacgaaagg cctcatctac gcctgggtag gggaagacat catcatacca tcgtgggctaa 300
aagccaagcc ctactggggc ttatggaacc aaacaggccc gctacatggt ctact 355

<210> 18370
<211> 310
<212> DNA
<213> Glycine max

<400> 18370

ctatcaatac tcagctggat ttgacctgat taatacaata tatgtatggt ctaaccatgt 60
atacttataat acttatgagt tatttaataa cgggtgctctt gccatgaatc tcaacatatt 120
acgaattaat cattgcattc tggatggagt gggatactaa tgggagctaa ccatcgact 180
tcttatcttc tttctttaac agacacctaa tatgggttttt aagggtctatt acatactgtg 240
aaatattaat tgcccgctt atgaaattaa aagtaggtta tatggcaaac ccgctgacta 300
ttatctctat 310

<210> 18371

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18371

atcttttgaa aagtgggtgct tctaacttgt attttctagg ctccaaaacc ttgacctga 60
gctactccaa attcctttat attaaaaaga cttcaaactg taataattta gcttaaaactt 120
taaaagacta gtttaattaaa ttcctaaata gttacattct aactaaaaat gggccaaaca 180
tagtttttaa ttaagggtta atgaaataat tgatctcata catacctaaa aaggtagaca 240
taaaatgcaa taatcataca tcatgttttt tataacaacac atgttcacca ttnttttaac 300
aaagccttaa naataagaaa taaaaataga aattcttgta attatttgta aacaacagaa 360
actggaaaat aaactagctt tgggtggt 387

<210> 18372

<211> 399

<212> DNA

<213> Glycine max

<400> 18372

atcatgaagt ctcccttgac tatttcttac aaagtccatc ttggctctct cttcttcttt 60
tcactagact agagaccagg cgacctactc ttctcattgg tgccctccat ggcttctttt 120
ttacgtggct aaaccacctt aattttctga catcttttcc tcaatcgatg ctacaccaat 180
tcttcttata tataaatatt ttggatcttg tcttttcttg cgtaaccaca cttccatctt 240
aacattctca tttttgctac tctgcatctt ctctctcatc ctttaaagct tagcattcac 300

tattattgtg aaaaattcaa gtcctacatt agctagagat aacgccaaga tagagtatat 360
aagtgggtggc aatccctacc atatgagcta gtttttggg 399

<210> 18373
<211> 294
<212> DNA
<213> Glycine max

<400> 18373

gtcacctgcg gcatgcattt tgagtttttc ttcattggacg tcccgtgggtg ttcgtatgaa 60
tcttttgggtg attcttacgg gaagatgggtg atgtagctcc atgtggagct tgtatgccat 120
cgatcttctt catcaatgga gtcctttgct ccttaaagca taatgacatc ggaatggatt 180
tggaacaatg atgatcggag acacctcttc atggagaaga tgaatcaaga agaaaccac 240
caccatagga aaccatggat aagagcttga aggcttgaga acatgaatgg aggg 294

<210> 18374
<211> 350
<212> DNA
<213> Glycine max

<400> 18374

acatggctct ataatctggt ctaagatctc caactgtcac tctcaccaat ggtcaactca 60
tattacagag ggatctttgt tctaattctc agtatctcac agtaggagat gtatcagctc 120
tcacttattg tagccatact atggttcctc ttccaacttc tgtcacttta ttgcgggacc 180
catgagtatg gatctacctt ttgtacgtgt tagtacctct gagacttcta tcaatatata 240
atactttcgc tgatcaaaaa aaacacaaaa tattcaccct taaggagaag gaccacttga 300
caagacaaga cattctgggtg gcttctacta cagcataagc ccgaaaacta 350

<210> 18375
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18375

tgtttggttaa acatcttaga aaaaatcaag atttttagctt gttcgcacat cactcacatg 60

tatgatatcc actcgacaag gtttgaagta gaggagacct tcaatcctat aacgcaacgt 120
ggcggacaaa aatgggcagt taacttgaat ggccattatt gtcaatgcgg aaagtattct 180
gcgcttcact attcatgttc acacattaat atttcttctt tntagtcttt gtaagttcac 240
actaaaattg aaaaaaaaaa cttagaggga ccaaattgaa aaattacaca cttatatgaa 300
ctaaaaatga acaaaacaaa ttccatgcat aaagattgaa aaaaaatgca acttatggga 360
actgaaataa ataaaaaac t 381

<210> 18376
<211> 405
<212> DNA
<213> Glycine max

<400> 18376

gctggaacac agagctgcc a ctcttctcaa gagaaggatg tataatctac agccaaagac 60
tcagaatagg ggggtcattc cgaaacatct cctatggttt ttcaagaagg cgagaaatta 120
caagatttca gtgcaaata gtctcatttg gccgctgaac ctggtcctcc acagcttaat 180
tctgaaatca atcagagacc aaaaagggtc actaaacctt ctgaaagata tggttttgaa 240
gacctggctg cctatgcatt acatgcagct gaaaaaatag attcaaata accagccact 300
taccaagaag ctatcaatca tcttgaagct gaaaattggc tgttagccta tgaaagagga 360
aatggaatct ttatataaga atcagacctg gaaacttggt gaact 405

<210> 18377
<211> 372
<212> DNA
<213> Glycine max

<400> 18377

atcttcgaat ctcttcttga agctgacatt ctgagcaaac cgggttgaga taatgttgta 60
tacaatatac ctgcatcatt gacaaaagg ggaaattgga tcaatgatac tttctagatt 120
ttaagtaagc gaactcatct ccatatatga tagagcagag atgaaacgat tgtaataagg 180
tattttattg aatgtgtgaa taatggaaaa ctgaatacaa accagagcca agctcctcat 240
cagagaacaa actctctcta gctgcctaac cacaagggtg aaagcaaat gaataatctc 300
ccccaatac taattccac tactctactt attgaaggaa tatcctaacc gaatgccacc 360

tcagctatca ca

372

<210> 18378
<211> 431
<212> DNA
<213> Glycine max

<400> 18378

tatacacaac tcaagcttgt tttgctcact ttctggatth gattttgtca caatttttgg 60
ttggtcttaa ccaattaaaa ggaaaacaaa agtgthtcaa tttgtctgcc ttaattactc 120
ttcaatcttt aacaattgggt tttggttcta ggcacaagtt ttcgactcaa acttacgaag 180
ttaagtcttc ttttacaact attgtacttc agtcatagtt gtgcacacca tagcactacc 240
atcatcatatc tccttgcttt tgttgacgac catctttcaa ggtatgtatt tgatagtccc 300
actcctatgg ttattacatg cttgttgata tatgactatt gttttatata agcatttatg 360
cacattgcga gtgaacctta gtctctgtt tgagattgaa tacgatgatt aataactaaca 420
atttgcttta a 431

<210> 18379
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18379

agagaaggcn tttgaagaat gaatgacnct tttgannnca cningctcanc gagatcccta 60
gagtagacct gcaagcatgc atatctttgg ctggcttctg agaggggacc agctttcatt 120
gatggtgtaa cactatagga gtcccgactt gtcactcttt cacatatgga tgggccagat 180
ggatctaacc gacaatcagt gggttatcatg gctagcacca taacacagaa aaaaccggtc 240
ggagtgggtt tggctgatgc ctatgacaca ttctaccgaa gatgctacaa agacacaccg 300
agaagtgaca gtaatacacc cgctctttat gtatggctgg ctcttaattt tcctcatga 360
aagacacccc tttcccccta caagcctacg ccttgtgctg agaaggggaag ccaataggaa 420
aactcatgca gaccgagaag ctcagtactg gtccc 455

<210> 18380
<211> 383

<212> DNA
<213> Glycine max

<400> 18380

cctacaaggg ctatctttat taagcctagt ttaacaagaa ggatctgagg atgaagctag 60
cattgattca acctaactag gtgatcaagg tttagtaatt taagctacca catataacac 120
caagacatga ttgattatag aaacatcttt atatacatca gcttgtttgt tagaaagacc 180
cagcacttgt acctactgtt gtcaatctta cttacttgca ttattactct ttttagccta 240
cactgaggct aattttgact aaaccatcaa ttatcaaagt ttccttcaac acgccctatt 300
tatgaatcta accctgccta atactagttt cttgaggctcg atacttcgat tcatccattc 360
taattataca tatccgatga tcc 383

<210> 18381
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18381

ttctttgata tgnccgggtgt gtaaacagcg atatatacac ttattgngat tggcaataaa 60
tagttactaa cattaactgg ttctcaaatt atatttataa actgggtaaa aatatgtctc 120
acaatagctt atacatttgt ttgatgccag attattgggg cctggcaaaa acctgttatg 180
gttattgtaa ctgaacttct cttatgtgga acattgcgca aatatctgcg gagtatcccc 240
gccaatgtgc tcggatgttc gcgcaacaat tggatttgct ctttgtattg cccgagcaat 300
aggaatgctt acactctcat gggatcattc accgcgacct taaacctggg attgtatatg 360
aatgtccaac ttg 373

<210> 18382
<211> 521
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18382

gcgcgacgta cttaacatac ctttcaaccg gttgtacggc gagatctaga tannnacaan 60
ncagaagacg aatgaacctt gatgaccctt tggaancagc gacatacaaa tactcagctc 120

tcgggttgaa aaatatgaca ttatccaagc tctatatatga ggaccccagg ctctctttat 180
 gggaagagat ttaggctaga ctacttctat tagacactgt attcgttttg gaagaaaaat 240
 tatagcattc tacgttctct actgactaaa ggaaggctac aactccaacg atgtattctc 300
 tagaggatca agcacagctc tccttgaggc tctattatta ctattaaatc ctgataagtg 360
 tccactcttt accaaatact ctgtatttga tgctataatc catgcatgct aacggctcga 420
 ttaaccgtct ctgcgcttaa ttacgtaca tgcttataga gcggccatga ttaaattggag 480
 aatggggcgg taaaccaatc atggaaatca tatgctaaac g 521

<210> 18383
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18383

tttttgtctt anaatcaata ttctttgtgc taccaaatac ctacactcta aacaaatcaa 60
 taagattttt tggagatttg cacattcact aaatttgtaa tcatcttata gacggataaa 120
 aactcaacg cttttagttt ttttctctca agttatacaa agtattttta gagtttagta 180
 tctatacgaa gatttataaa aagctttaca agaaagaatg aaaaaaatat gtttgtgtag 240
 atgattcatc ttcaagtatt ctttgtctca caatagttgg atttttcact ctgctcttca 300
 tctaaagtca agttcgttga agaatttcat gtttacatta catgcacatc ccttcttcat 360
 gcaangttca tgat 374

<210> 18384
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 18384

tcaagaatta tggcctcatc aaactacttg gttccttaag gaaattctat aaataaacct 60
 cccatcttta atggagtggg ttaccactac tggaaaaccg gcatgcaaat ctttatagag 120
 gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180
 gccggaagtg caacaataga aaaacctaga gcagattcga ctgaggaaga aagaagatta 240

gtacaatata atttaaaggc caaaaatatt attacatctg ccttaggaat agatgaatac 300
 tttagggttt caaattgttaa aagtgtctag gatatgtggg atacactaca agtaacacat 360
 gaaggcacia caaatgttaa aagatctagg ataaacact 399

<210> 18385
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 18385
 gagcttgact gtgacctgaa cagcttgacc cccggtacta atactttgtc ttttgctcca 60
 gtccaggtgt acaacatcag ccattaagct tgtaatggct ttgatttgcg aagaatacaa 120
 ggccttgatc gtttgaaaat aaacttggct agaaaaacga atcgtacatt tatgaacgcc 180
 ttgctgtata atgggctgtc agttttttta atgagctgaa acatttaagt ttgtatgtaa 240
 gatgatttga accctgcatg 260

<210> 18386
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 18386
 tggagaggat gcttaattgg gtgttaagag agagggtgag acagagagag ggggcagcat 60
 tgaggttgaa ggaagaacaa tggagagaag ttgatctttg agttgtgtct cacaagactc 120
 tcatttatca aagttacaac aaggggtaca catgcttcta tttatagact aagtagcttc 180
 cttgagaagc gttcttcaga aaacctcctt gagaagcttt cttgagaaaa cttccttgag 240
 aagctcctat gagaaaactt ccttgagaag ctagatctta gctacacaca cccctctcat 300
 aactaagctt acctccttga gaagcttcct taagaagatt cctaaagaag ctagagcata 360
 tctacacaca cctttctaag agctaagctc acct 394

<210> 18387
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 18387

ttgcatgcat tcttctagcc aaatagattt accttgaatt aattcctttg atagcccctt 60
 tgagcctatg ttcccctttc tttgttttga agctcattac aagccttaag tgaaaaacca 120
 tgatatcacc ttacccttaa ggaattttgg agctttggaa ttgttttggg aataagttgg 180
 gaataagtgt tggggggtat gtttcattgg aagatatgat atttggccat gcttaatgtt 240
 ctattctggc catgcttgat gtatatatat attgcctaga tcttgctgta atcttcaatt 300
 gctggcaaaa aaaatatata tcaattgctg caaattcgta 340

<210> 18388
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18388

aatatacaat ttccaaattc ggatgtttat taacacagga gaaagaaact gtaaaagcat 60
 gatgaatttc ccgttggcac atagaatcat atcagatata taaacatttg cattaactga 120
 gttgagttat ttcacacaag aaactttttt gagaatttcc tactctaattg tttcggaacc 180
 agttaatcat tctgtacaac tatgtgaaaa tatcttaact catttcttct agaatttcat 240
 tagccgtctc aaaaagaggt gtgggagctt ttaagcttgg tgattttatc tctgctacga 300
 tttctctttt gttataggat cagcagtcaa actgaacttc tcattctttt ccattcttag 360
 aaattctcct attattgaga aaaatta 387

<210> 18389
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18389

ccgtgatcct ctacgccacc ttttgcattg attcttcatt acttcatgat gatgaatcaa 60
 gattgattca aggtgtttcg atgataacaa agatgatgac aaaaagccca agagaatgat 120
 ttcaagattg agtcaagaac aattcaagaa tcaagagaaa gattcaagaa tcaagtttca 180
 agtttcaaga atcaagaatc aagaataacc aagatcaaga ttcaagactc aagattcaag 240
 aatcaataaa agactcaatc aagataagta ctaaaaagnt tttcacaaca ttgagtagca 300
 catgaagttt tcacaaaatc ttttagcaaa gagttttttac tctctggtaa tcgattacca 360

gtttactgta atcgattacc agtggcaagt tttgttttca aaagct 406

<210> 18390
<211> 349
<212> DNA
<213> Glycine max

<400> 18390

tgtaaatcaa attcccccttc tcttcacct cagttatctg caagtactcg gccgcgcttc 60
gcgcgggccac aatgttgtaa gcaactgagag tgatgggttat gccatagcag aacttggcac 120
acagctcaaa tgcttccacc ccacccggaa aatcacggag tcggactatt tgggtgctgtg 180
gagaatcaga actctctgag cataaccttt gcaggcgcaa acatttggac aatagtggaa 240
actgaacaac atcatgaact tgtgtgacta agcaatataa agattgaaca agtcttgctc 300
aaaacacaaa atggactgag atatacaact tgaagagctt ctaattttc 349

<210> 18391
<211> 343
<212> DNA
<213> Glycine max

<400> 18391

ttttctttgc atgtctagcg agctcttgag agacttaggt cctagcttta catagtctga 60
gagattttgt tatgtgaata tctgctcata ctatagcttg aagaggaagc cgacctgaga 120
gcttgagatg agtttgtgag agattgcgac gtcttaaagg tggatgagac atccccacta 180
cttgtattgc tgcaaagttt tatctgtctc tcgtcttcgt tgaaaaggaa gctttccagg 240
gtcggatagc tatatcctct gttggatttt ccttgtaggc atttgacgta aatatctttc 300
tatctatcta atgatggta gaggcgtctt atgctatcag tat 343

<210> 18392
<211> 328
<212> DNA
<213> Glycine max

<400> 18392

tgaactatgc atactccgct tactaacgct tgtctttgga gctgactttc cttttgccct 60
aactatatta gactggatgat tcctaagctc ttgtccttga ctggaagaa ccttttttta 120

agcgagggca tctgacttgt gaccatgttt taatattgtg aatcataatc ttccgcgaat 180
ctagactccg acttctatct tgggatgaag ggacgtacgc ctaaagaatt gcatatgata 240
catatgctat ttattaatac tggagcctgg gagattgtct ccttcttaca tacaacgact 300
tggggtatct cagtgcceaa cgtatgta 328

<210> 18393
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18393

ttcttgaaag agcccgggta gtcaaagaga agttcaagtc catagccatc aaagtctgaa 60
nagagtatga tgaactaagg gacgtcaata tggccaccgc tgaagccttg gaacgagaaa 120
ccaagaaagc ccgaaaggaa gaacacgacc aaagcaaagt tttgaggggc tttatagggc 180
agaaatagtg agctcaagct ccgaagaggt gaaaggaatc atcatgggtc aaaggcatga 240
tcttgaaaga cgagctaaag gcttgccctta tgtcgaaaag aaatttgtcc caacagttaa 300
agcgagactg aaggggaatat gtggggccatc atcgatgagt gcaaagagaa gcttaatcta 360
cc 362

<210> 18394
<211> 400
<212> DNA
<213> Glycine max

<400> 18394

tgtaagatta tggcgtttac atcacatgtg gtactttgtg gcggggcgggc gatggtgcac 60
aaatagttat ttatttccac atccacaatg cgcgcataaa cccaccatcc cctggtgccc 120
accttcaact gagctcacgt actcccacgt agcccatatc cttgtttctc tcaacaccgg 180
gtcccatca gtctcccaa gcttccaaa catccaagca taacaacttt cacacagcac 240
aagctattac agccaagcaa aacaaagtaa aggcagaaaa ctctgcaaaa acaccaacca 300
aaaatcacag ctttttccca ctcatagacc ccagtaacag ttccttcgat ccatttcggt 360
aaccgttggg tgcactccca aattttactg gaaggctata 400

<210> 18395
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18395

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agcttccatc aagtggtaat cagagcacia gagcttcaag taggtgctcc ttaaactcc 60
attaattttt tgctttacct tctattccat tgttgtttct tcattttttc tccatgtatc 120
tcctcacatg tcttgtgata aatgttttta atatgattct ttagagtttc caccaattaa 180
acttgctata gaagctagat ttgattttct atggttcaaa tttcttggtc ttgttcttga 240
accatgaatt gtgttgagtt tacgttcctt tgagttttgt cttgttattt ttttgtggat 300
gaaacctaaa ccataaaatt cttacaaaaa tattaaagta gaagaaaacc tcanaaatct 360
agagtgactt gttcaccta 379
```

<210> 18396
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18396

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nntaaaattg aattanaacg ctcaataaac tgctggtaat caattaccat ccatgtgtaa 60
tcaattacac attataaatt ttgaattcaa atttctagta actgttataa acattttcag 120
ctactggtaa tcgattacca gaaagtaa atctcaatttta aatgatttag atagaatttt 180
ttggccaaac cttttgtttt ttcaatttgg aaacttcttc ctaagattct agagatcaac 240
ttaatcatat atcttgattt tcttggattc ttggattctt ctcttaaact tagaagcact 300
tgatcctttg gcatcatcaa aacatcaaaa catcttgctt ctacatagga ttcatttgac 360
ttaatccatc aactgaataa atccttcaac tatttctcat ccttggaaaa ttctttttg 419
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<210> 18397
 <211> 252
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18397

tttcttccac ccatttcagc caancgagca caggtgcttg ctccataagc aacagccttc 60
 tggaggaagg attcgtaaag cccactgtg acgaaatgct attaccaccc ccctttttac 120
 taactgcacc cccttatatt agtatggtga gtcataatac gtaacgctac tacacttgat 180
 gaatctccta gccatactta ataacgaacg catacacctg aatccttacg gattatgcag 240
 ctactctatt tt 252

<210> 18398
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 18398

agagattaag atctgagttt gtgatttttt gtgcgcattt ccagcatctt tctatccata 60
 tcagactatg catgattgca gattacatga atggcctcct ctatatatac caggatgaca 120
 ttattcttaa cagatttcca ttcccataaa gtatggcgta aaataaaatg tgtcactctg 180
 accactaatc tttcataact ccatatcgtg gctggtccat ggagactggg attcagtcgt 240
 gagaaagaca tccctactga ggcataagatc tccatgctgt ccagccttt tgcacaagga 300
 tagtgtaatt aaatgaatac tgccatgcag atcaatatga tctttcccca caatgactga 360
 tccaattgaa taaagaatgg ttactctca 389

<210> 18399
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18399

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 agcgggctgc aacaccggct ccgcttcctt aattgtactg gaggcggttg ccgtggcttt 120
 atcctctata gttttctgga gttttgacat gacctccgag atggaagcca tttgatcttt 180
 taaggccgat ggatcggcct tcatttggtc ctgcacgcc tcttcattat ccattattct 240
 ggattgagtg ttataggggt gcctttgtgc tttcttagtt atgatgaaat tcctaaagac 300
 ataaacaacg gtgagtatgc caccaaaaca tgaatatgca a 341

<210> 18400
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 18400

aaataggaga gaatgaaaat ttccattcca ggaaaatgat atgataggaa attccctatc 60
 atagagtggg agaaagctaa aagaatagaa agatcatttc caaccaaata gtgggagaaa 120
 gtactaggaa agaaaaaaag ctctgatca aggatctgaa ttatctcaga aaaaatgtgc 180
 gaataggtct ttgtaccgga ctatatctgt atactacaga tttgtcacca aatgaactag 240
 acgaacgaaa cgaaaccacg acctgaaagt gct 273

<210> 18401
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18401

tgttttttatt cttagttttg ccgaactgat caaaattcaa atgatctatg gcccttcatt 60
 tttattttctt gagcaaacta atgctcaaac ttggtacttt aactaatctt tggctcttctt 120
 ttctatgaca gccacaaaat gttccaagaa taggtgagtt ggctcttggt ccgctcatgc 180
 ttggggcttc aaatacactg cttaacgctg accattacgg tgtctatttc aaaggaatgc 240
 ctctcttgaa tggaaagtg ggcataccat tctcctttat gtggtaattg ggtatctggg 300
 gtacctgaaa acttaacggt gagtttgtct aatcaggat tacggaggca tggagatgta 360
 tntgagcgta ctgctagagg atactat 387

<210> 18402
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18402

nttacttcct tggtnctggt ttttaattaat taaaaggaac gcgaaaaagt tttgggctgg 60
 ttntgaaccc ttgccctgca agcatgaaag gactcccttt gccactaagc tattgcaatt 120

taattgttta ataggtgcag ttcattgtga ttcataactt ctgtaggata aatcatttgt 180
gcacaaactg tttaaaattg tgtgtctcta agttatgctg aacatgcaat attatgttaa 240
atactgatat gcacggatt aaatccttta aattttatta catgttgaat gaatatacgt 300
gcaatgttat tttgaattgg tatacatgta atctttatga ttcaatattg agcacatttg 360
cattattaag tatgtttatg caaggattat tttgaatggt aagtgattaa tataatt 417

<210> 18403
<211> 387
<212> DNA
<213> Glycine max

<400> 18403

agtcttctat agaatgttcg ttcctaattt ctctacaatt gcacacctc tcaatgagct 60
ggtgaagaag aatgtggcat ttacctgggg tgaanaacaa gagcaagcct ttgctttgct 120
caaagaaaag cttactaagg cacctgttct agctcttctt gacttttcta aaacttttga 180
gctaaaatgt gatgcctctg gagtgggagt tggagctgta ttgttacaag gtgggcaccc 240
tattgcttat tttagtgaag aacttcatag tgccaccctc aactacccca cctatgataa 300
agagctttat gccttaataa gagccctcca aacttgggaa cattaccttt gttccaagga 360
atttgtcatt catagtgatc atcaatc 387

<210> 18404
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18404

ntgcggattt ggtcttcgct agcgaaatga tcgatgtggg tctaaaaata ggcaaactctg 60
atcatcatgc tttgatacat gcaaaaaaaaa ctggggcaag tgaagaggga gagaatgagg 120
gagaaacca tggtgtgact gccattccta tacaaccaag tttcccacta acccaacaat 180
gtcattactc agccaataac aaaccttctc cttaccacc gccagttat ccacaaaggc 240
catccctaaa tcaaccacaa agtctgtcta ccacacttcc aatgacgaac accaccttta 300
gcacaaacca aaaacaccaa ccaagaaatg aattttgcag cgagaaagcc tgtagaattc 360
accctaattc cagtgtccta tgctgacttg ctcccatatt tacttgataa ttcaatggta 420

gc

422

<210> 18405
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18405

ttctngattt gaacctgact tattattgag ttatgtctac tacaattgta taaatcactt 60
tacgcttgtc caaaagtact tacaaatgta tgctcttgtc tgttttttagg tggtagtgtt 120
aatgagaaac ctgtgcatga ttttaactag ctgagatttt tagcatcatg taagtattga 180
tggctctgacc ttttagattgc tataaatatg taacatgtca tgctgagtaa ttgtctgcct 240
tgtataagca ccattagagt tcatttttgg taaagtgtta tcttggtttt tggctctgtaa 300
atatgtagta tgtcatgctg agtaattgcc tgacctttat tttattaaat ttgctcaaca 360
ctaaactatg atgc 374

<210> 18406
<211> 364
<212> DNA
<213> Glycine max

<400> 18406

atggctgctg aacagctctg atttcgtgag tatttataga agatgacgca tgtgaatcga 60
ttacaggaat tgctaatacga ttacaggccc aataagcctt ctgggttatcg attacaagat 120
gttgtaatcg attacaggct ggctgttcat gtgtaatacga ttacactgga tggtaatacga 180
ttaccaaagc ctatcctaag ctataactcta ataaaatatc tatattcatg ctcaaataca 240
tcctatctga ctaattatca ctactactac actaaatccg atcatgtcat tactatatac 300
acactaaatc ataacttcta tcatcaatac aagaatgcga acaagatcaa tcataataat 360
ctac 364

<210> 18407
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18407

ttcttctaac aatttcacgt attattacgt gtttaacata tttattactc attgttttgc 60
cttttgccgt aggatatgat gcaatcctac ccctcaaggg cattggatag aagactccaa 120
gaagattggg ccagagatgc aagagaaggc cctaagattc tcatgagccc tatggtagat 180
tttgggcca tggactaagt atgagcccac ttatctttgt acatattaga ttacgatttc 240
attattttta ggccttgtat ttagagctcc ataatgtang tagggtagcc tagaaatgta 300
ngatttttca gcccttgtat tttatggcac ctagactagt ttttgtatta ngggtaagtt 360
tgaatttcac atg 373

<210> 18408
<211> 408
<212> DNA
<213> Glycine max

<400> 18408
tttctcatag atagcgatgg atgtatagtt ttttgattac atgcataaga gaaatgaaac 60
aaaataaaaa gaaagaaagg aaaagaagga ttcccgatca aagatcggaa gaaagtaaaa 120
aggaaaagat cagaggaaaa cagaataatt cccgatcaat aaaggaaacc aagaaagaga 180
acagaaggtc ttcggaccag ataaattttc agcgaggtaa atgaccgccg acaaagggaa 240
aaccatttc aaagtgggtc ttcctttgtg attgccattc aaggtcgtc ccaactggcg 300
atgtcccgcc ccacataaac aaagaggaaa agaccgaaac acccagtttc ctctccaaaa 360
aactaccct cgagaaaatc ctattgatcc gtgatcgcgc gtgtaatc 408

<210> 18409
<211> 323
<212> DNA
<213> Glycine max

<400> 18409
gatcaaaaca aaatctatac attctagtcc actcaattca tacaattact cattcaaac 60
aatcacaaca cttcatttca taaaaaaca accactgaat atcatattca atcagttcac 120
tgttcaaaaca tactttttgta caagctacta ctacaaaca aataactaaa agttataact 180
gaaacttaaa taactgaaac ataatgcata aacaaaataa actgagtaaa ataaactgtt 240

cacaatgaga aaaagaaaag atcttatcaa tctcctatg gatgatcctc tgcataactca 300
 ttaagatcca acctggagca act 323

<210> 18410
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 18410

ttgacttgag tcatcacaag atataaatat gcgatcttgg catggattgt ttaaaaaata 60
 acaatcaaga aatctatctt tcaatcttct ctctcaacat cattcaactc tttcaacaga 120
 ttgtttctga ttcattcttct ctctcatctt ctaaaagttt ttgttcaaaa ctttttcttt 180
 caagaaaagt tctttgataa aaaacttggt ctattaatct ttttcattct cttctccctt 240
 tgccaaaaga acaaaggact aaccgcctga attcttttgt gtctctcttc tctctttcca 300
 agagaattca aaggacctcg cctgagaatt cttttgattc ttcccttccc cttaaacaaa 360
 agatctcaa ggactaaccg cctgagatat cttttgttcc cctt 404

<210> 18411
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 18411

atctttcttg agaagctttt atggaggcta gatctttgag ctctaattgat gtccttcaat 60
 ggcaatttt aaccatggag ttacactgga agataaagga gaaaatatta tatgaggcgt 120
 catccaccag gggatgagcc atggaagaag aagctttacc accaagataa tgttttggat 180
 aagaagctta aagaagaagc tctattagag gaagagaatg agagagagag agagaaagt 240
 gcatgggaat gaacgacagg tacggagaga agttgaacgt tgaagtgtgt ctcaagac 300
 tctcattcat caaaattacc acaagtggta cacatgcttc 340

<210> 18412
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 18412

tctagccaaa tggacttacc ttgaattaat tcctttgata gcccttttga gccttggttc 60
cctttccttg ttttgaagct cactacatgc cttaagtga aaaccatgat attaccatat 120
ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
acattgtata ttggttaa at gttggacatg ttgaatgaaa tgttgtttct caaaggctaa 300
agagtaaaaa aaaaaaaaaat cgaataaaga aaaagaaaag caataaagtt gagtgaataa 360
gatcttaa at ggcacaagaa tgatgaaact cttggttcta ctc 403

<210> 18413
<211> 375
<212> DNA
<213> Glycine max

<400> 18413

agctttagg attatggtgt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tgttgccac 120
ctccaactga gtcacgtac tcccacgtag cccatattct cgtttctctc aacaccgggt 180
cccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca aacagcataa 240
gctatcacgg ccaagcaaaa cagagcaaag gcagaaaact ctgccaaaaa aaaacccaac 300
caaatcacag cttttctcac ttaaagatcc cagtaacaat tcctcgttc cggttcatta 360
accgttggat cgact 375

<210> 18414
<211> 409
<212> DNA
<213> Glycine max

<400> 18414

ttcttaagaa aacttccttg agaagcttct ttgagaaaac tttcttgaga agctagagtt 60
tagctacaca caccatcta aaaactaagc tcacctctt gagaagcttc cttgagaagc 120
tagagcttag ctacacaccc ctataatagc taagctcacc cccgtgacaa aaaaacatga 180
aaatacaaaa aaaatcctac tacaaagact actcaaaatg ccctaaaata ctaggctaaa 240
accctatact actagaatgg ccaaaatata aggcccaaaa gaagaaaaca acctattcta 300

ctatttaciaa agaagagtgg tcccaacctt ggcccatggg ctcaaaaata taccctaagg 360
 ttcatgagaa ccctaaggcc ttctttatca actctagccc aatcctctt 409

<210> 18415
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 18415
 tgctttaacc tcattgtctc tcacaggac tagattttgg gagccaatcc aatccttgtg 60
 ttcggactct cagacactta tgagagccgc cgatgatccc attactgatt cccctaagct 120
 ctctgatctt gcttcacgac gcattccatg ccttgcgaa tccttggaat accctcgcgt 180
 tgtggtaact gaaacccgc gcgatgaaag gcgtgatgct atcgctgat ggcactctc 240
 tcatggggt 249

<210> 18416
 <211> 364
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18416

tgtagtttc agatgatgca gctgagtttt tggctacctc atacactcct ntcagtacta 60
 taacagcatt tctggcgcta aactactacg agttgaaagc catcttctcc attaaatttc 120
 tggcttcctt acgaatcatg tttccaaggc ctccaccact ggcagcatct atcatacttg 180
 tctccatatg actgagacct tcataaaatt attggagaag cacctgctct gaaatcttat 240
 agtgagggct actgacacat aaatttttaa atctctccta gtattcatac aggcctctctc 300
 cactgattcg tctaatacct gagatatcct tcctgatggc tgcggtcctg gaagcaagga 360
 aatg 364

<210> 18417
 <211> 366
 <212> DNA
 <213> Glycine max
 <400> 18417

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 taagccaagc ccctactttt gaggggcaac tcctacctta tgaagactat cccgggcaag 120
 acgatgggga aggagatacc catcttggcc cctgtctcca cctcaaagat ccatccccgc 180
 atgaactacc ccagctgaac atagtccgcc atatccccgc ctcatccgca cccgtaaaag 240
 aatctattcc ctttgcgga gataaggga agattgaagc gctcgaagag aggttaagag 300
 cagtcgaggg cctcggtaat taccattct cagattggca gaattatgtc ttatgcccaa 360
 catcgt 366

<210> 18418
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18418

tgcctcanag aggtccagga aggacaaggc ggccgataga actagtccg ctctgagta 60
 tgacagtcac cgctttagga gcgccgtaca ccagcagcgc ttcgaggcca tcaagggatg 120
 gtcatttctc cgggagcgac gcgttcagct cagggatgac gagtatactg atttccaaga 180
 ggagataggt cgtctgcggt gggcatcact gggtacccc atggccaagt tcgatccaga 240
 agtagtcctt gagttttatg ccaatgcttg gccaacagcg gagggcatgc gtgacatgag 300
 gtcttgatg aggggttagt ggatcccggt tgatgtagat gttatcggcc agctcctgtg 360
 atatctgttg gtgctggaag agggccaaga gtgagagta 399

<210> 18419
 <211> 385
 <212> DNA
 <213> Glycine max
 <400> 18419

ttcttgagg gattgatggg gaccgggtgt tgagaggaac gaggataagg gctatgtggg 60
 agtacgtgag ctgagttgaa ggtgggcaac tggggatggg ggatttatgt gtgatttgtg 120
 gacgtggaga gtcgacttgt accatcgccc gatcgccacc tagtaccaca tgtgacgggt 180
 accccataat cctacaagct tgaagtgagg aagtgtggaa gggtagact tcctactttt 240
 attcgttgac cacagagtgg tacctggaga tatgtcgcg gggtaggag accttgggga 300

cgtcaggtgg ggtgctattg cccaaaacca agcttgacca atccccgaccc aaccgggca 360
tagtcagtca gtgagaacct gtgac 385

<210> 18420
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18420

gggttacctc cttcactaca tcaagaatca ccgagttgac tcttctatgt ggttgtctta 60
ctggtttagc cccatcctct aaatttatcc gatgcataca tgtggatggg gtaataccag 120
gaatgtccgc caggggtccag cctatagcct tcttatgctt cttgagaact gataacaact 180
tctcctcttg ctcatcagca agggaggcat atataattat tggaaaactt ttgctatcat 240
ccaagtaagc atattttaaa ttgatggta gaggcttcaa ttctggtgtg ggcggctgga 300
taatggtaga aagagatggg ttctcagcct gtacctcata aagaaagtca gaggtatgtg 360
tacttctga aacatgggta gttctatctg actctagana atctatctca ag 412

<210> 18421
<211> 351
<212> DNA
<213> Glycine max

<400> 18421

ttcttccaaa ttagtgtacc aactaccgc aactccggcc aagctatcct gaaagaagtg 60
tattaatagc ttttcatctt tagagtgggc gcccatctta cggcagtaca tcttgagatg 120
gtttttggga caagtcgtcc ctttatactt gtcgaagtcc ggtactttga acttcggggg 180
aataacaaca tcgggtacta agcaaagatt cgtcatgtct gcgaacggat aatccccaaa 240
tccttcgacg gccctcagtc ttctctcaag gagatcgagc ttctccttt cttcagttgc 300
tgaggcggc ccttccgtgg acaaaactat tgggtgtgct gcgatgttg g 351

<210> 18422
<211> 416
<212> DNA
<213> Glycine max

<400> 18422

tcttatggac cttgaacaag caattaactc ctctttcata accatgctat gtgctcgcga 60
 ctgggtctctt tcttcccttc gcaacttgag ttcactattg ctaccccata gagctccgcg 120
 aaatttggtc cggccatact cttccttgcg agccctcttg gtctcttggt caagggctct 180
 tgcagtaatt gcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcggc 240
 caacttgaac ttctccttgg caagttttgc ctttcctaac tcgcttttga gagtttggac 300
 ttcttcgtcc tcttccggtg cttcaaaact ctcttcgtcg acgactttta acttggcgag 360
 ccaatctaaa cctcgtatat gaactttcat ccattcgtgg taccacaaa tgatgc 416

<210> 18423

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18423

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 cagagtcaaa gaattacaga gcttgtcttt tgtcagtgtc tgttagaaat aatggcactt 120
 tgttgcggtc ttgtttcatg ttaataaaact attttttatt agcaataaaa gtgaatctct 180
 gtgtccctac taaaatttaa caaagctaact ctttgtgtat cttttccttt tttctttctt 240
 ttgaagtaca attgtctttc ttatctggca gcaatcagta ttggtattaa cttctgatta 300
 aattgttcca tgacaatcgt gctgctaata ctgacagggc aagctaaaac ancacacaac 360
 ctgttcctca agtctctaaa t 381

<210> 18424

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18424

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 gttatatgga tcaagatatc aaagaaagat gagaactatt tttataagct tttcaaggat 120
 gggtaaggat tgacctgtaa gatggaagga ttagaatgct aagaggacaa acaaattctg 180

<223> unsure at all n locations
<400> 18427

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ggtgattttc caccatggag atgcagcggg agacaaagga gaagaggtga gaagaagcgc 120
catccactta ggaattagcc atggaagaag gagcttcgcc accaagatga gccttggata 180
agaagcttgg acagaatgct tcaatggagg aaaagacaga gggagagaaa gagagaggcg 240
gggggggggc acgatattga aggaataaaa gagggagaga agtggaactt tgaagtatgt 300
ctcacaagac tctcattcat c 321

<210> 18428
<211> 373
<212> DNA
<213> Glycine max

<400> 18428
tcaatcatga tatgtattaa aaagtttttt caaaaactga gtagcacatg aattttttct 60
caaaaccttt taccaaaaag attttactct ttggtaatcg attaccagat tattgtaatc 120
gactaccagc agcaaaatgg ttttcaaaaa aaaatttcac actaaattta caacattcca 180
attaatttca aaatgttgta atcgattaca agtatttggg aatcgattac cagcgtgttt 240
gaacgttgaa attcaaattt aattgcgaag agtcacatct tttcacaaaa atgctttgtg 300
taattgatta caatgatttg gtaatcgatt actagtata agttttgaat gaaaaatcaa 360
aagatgtaac tct 373

<210> 18429
<211> 366
<212> DNA
<213> Glycine max

<400> 18429
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gtcggcagaa aaatatcagt cgtggctata taacgaccga tgtcaggtat tttgttttca 120
attcaatccc tgaataattt ttggatattg tccaatagga aatgttcgat cggcgtcatc 180
acgtgatgct tgctttttat tttaaactg ctggatcggg catctttcct ggccgacatc 240

<213> Glycine max

<223> unsure at all n locations

<400> 18432

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 ttctctctatc tttttgttcg gtgaattctc ttttaattcct tgttcttcat cttattctcc 120
 atgtatatcc tccatttcct tgtggtttgg tgctgttttag agtagattca aaaaaaaaaa 180
 atcgattaaa tcttagatct acacttggtc ttgtatttct atgggttcaa tttttagat 240
 ctactcttga atcatgtttt tgtgttgatt ttaggttcta tcatttttca ttcataatat 300
 tcttgtgctg aaccttagat ctaaagttta ttccaaaata ttgattagaa aaaaaaaca 360
 caaaaatcta agtgtaaata acttaatcca tgttgtctt 399

<210> 18433

<211> 264

<212> DNA

<213> Glycine max

<400> 18433

ttacacatac ttgctgatct atatttcgat tctgcccttt taaagactgg cattttgatc 60
 tttgggacac atgagaattt agtgatcttt atcgaggctc ttgggataat atccgcatgc 120
 aattcatcaa cgataagcct acttgattat agagttagat acattaaccc cataacacat 180
 gtaaatattg ggtatactca ttttgagggt tatctcaatt attttcatta tataaaatgc 240
 cctatactat atatataaga atct 264

<210> 18434

<211> 402

<212> DNA

<213> Glycine max

<400> 18434

tgtctgaga tcaccggttt gtctgtcacc tccacatagt tgtgaggggg agaattatta 60
 ggtcttttgg gttatcttcc tatgtggagt aaagaccac ataagaaggc aagtatgtct 120
 cacttattta agcggagagg aatcatatta tagagtgaga cacactgaga gagactcatt 180
 tgagagggaa aaaaatctat cgagagagaa aatcattggg atgttcgtat acctaccgga 240
 gagcgttttt tagattgcaa ctgcggattc gatcacggtt ggatcggggt gatttttggg 300

caacaggttc tacacacttg aaacttcaaa ttgtttggct ggatcgggaa aaagatatct 360
acagagagag ataactattg tacattatct gctctatatt tt 402

<210> 18435
<211> 388
<212> DNA
<213> Glycine max

<400> 18435
tttgcattgca ttctttgcag agactgctcc atatcccaac aagccatcac tgcctccatg 60
gcatgaacac ggacatgctg ctgcagttgt tctttaaagg cacagagcaa cagaacataa 120
tgggtctgca acaaacaaaa taacaaaact cataaaaaac aagctcttca cattaacatt 180
taagcacatt aattaagaat gagaaacaaa acccatcaaa aggacaagaa ctgagaagga 240
ctatgtaaata acaagtgtaa ataaacccca agatgccaaa cttatataaa tgtccctaca 300
aagttaacaa aatgttatag tgattcagta ctccaatcat tatatgtaga gtggatatta 360
agtcagaatc aaatcttaac tttaatat 388

<210> 18436
<211> 417
<212> DNA
<213> Glycine max

<400> 18436
gacctatgaa actcagctat gaccacccct gccctttaa aacccctttg ccaattcagt 60
ggagaccaag gggatcatgaa gtggattcaa ctaggactcc ccgtgattac catatagctc 120
tagggttacc cttttatgac tactccttgt atagtagggg aagattaata ggtaaataca 180
tgtatgaaaa aaaaaatagc cattaaaact aaaatattac aagattttta aattaattat 240
aaaaacttct aaatatatct tcatcaataa gataacatta aaaatatata taaatatcat 300
ataaatatct atttttgtta ttccgtatct atactagata ggtgttttgt tagggcaacc 360
aagtacttat tggatccgcc ctccatagata gacaaaacaa ttatgcttat gagtaat 417

<210> 18437
<211> 360
<212> DNA
<213> Glycine max

<400> 18437

tgcttcctta agaagattcc taaagaagct agagcttagc tacacacacc tctctaatag 60
ctaagttcac ctcccttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
aagctcacc c atatggcaaa aaaacatgaa aatacaaaaa aaaaagtccc tattacaaag 180
actactcaaa atgccccgaa aatacaaggc taaaacccta tactactaga atggccaaaa 240
tacaaggccc aaatgaagga aaaacctatt ctaatattta taaagataag cgggctcata 300
cttagcccat gggctcgaaa tctaccctaa ggctcatgag aaccctaggg ccttcccttg 360

<210> 18438

<211> 401

<212> DNA

<213> Glycine max

<400> 18438

tgtgaaagca ttatatgggt tgaagctagt tgtaatagct tggattgaga gactaagttc 60
attcttagtt cataatgggt tctctagagg aatagtagac actacactat ttagaaagac 120
tcgtaaagag gatctgctaa ttgtacagat cgatttatgt agataacatc atctttgggg 180
ctactaaaga aataatgtgc aaagaggttt atgagctgat gaaagaagaa ttgaaatga 240
gcatgatggg agacctaaag ttctttatag gacttcaa at cattcaaaaa tatcatgaca 300
tttttatcca tcaagagaaa ttcaccaagg accattcaaa gaggttcata atggatgaag 360
ctaaaccaat agctaccctt atgcatccat ctactgtcat t 401

<210> 18439

<211> 325

<212> DNA

<213> Glycine max

<400> 18439

ttcttgcaat ttctgggagg ctttgccaaa gttttcttcg tgtttggtca tgtgctcacc 60
ataactctct gtttgcttcc gtacatctga gggatctaca tggtaaaaaa ctgggaaac 120
aagttgttcc atctactga tcttggaactg ctccaggatc ttaacaagtt catcaaggca 180
ccatgtggag gatgcgtagt tcttagaaaa cacaatgatt aaaatcttag attcttcaat 240
ggccttggaat agagaagggt aaataacatt cccacccggc aggtccctat catcaaagaa 300

aattttcatc ctttttccgg acaac 325

<210> 18440
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18440

tatattgcta gtggaagtga ggattcacat gtatgtatct tcaatcatca ttgatcaaaa 60
 tgggaaaata ttgccagtg taatatTTTA taatttgcaa attgaaagcc ttgatgttta 120
 tatgtctctg ttaaagtgtt tttatttTGT aattttttat tgctgggtca ataatttTGT 180
 aaaataagtt caacatgcac ttgatgcatg ctatcgagga tcactaaaat attggcataa 240
 aagacccatg aaatgggttct ttgtgggtctg atttactgga cttgaatgaa ttgaactaca 300
 aattgttata atgttcaaga gttacgggct tctgcaatat tattctagtt tatcttgata 360
 aaactangaa catcttgact gataatgctg gaagtc 396

<210> 18441
 <211> 354
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18441

ttctngccta attaacctga aattgagaga aaatgattat gaaacacata aaatgaaaat 60
 actaagtatt tattacctat acttaacaga aaatacttat aaccttacia aataaccata 120
 aattgggaga gtttgatata atttatacaa gtttcataca caaaattagt catTTTcacc 180
 gactaacaac tcccccaaat ttacagtttt gcttTctctc aagtaaaaag agaacaactc 240
 acttTctctc aagtgacaat gacatgcagt gactatgtac aaaggtgtat gctacaaagt 300
 gactgattgc atgataagag aatggagtaa aatgccctta tcacttTctt ttca 354

<210> 18442
 <211> 390
 <212> DNA
 <213> Glycine max
 <400> 18442

ctgagatcca tagatctaata gcaaggtata tgtttcatag aagggatttc gttgcttggtg 60
 ttgggttgatt ccagagccat ctattccttt atatcctgtg tgtaagtaga aaaacttaag 120
 cttttctgtg tcttctttta ataaagatct agtgggtggag acccctacta gtggctatgt 180
 gataacttct tatgtgtgtt tgaaaagtcc tgcggagatg tctaggagaa cattcttgat 240
 tgatttgatt tgtttgcctt tgaaccagat tgatgttatt cttgggtgtgg actggatatc 300
 ttccaacccat gtcttggtta actgtattga taaaagagtg gtgttcgatg attctgtatc 360
 cgagtaagat atgaagttga tctctgccaa 390

<210> 18443
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 18443
 ttctttgtac aacctctgca ttgttgagct tctgcagctt actaacagaa gttgctgccc 60
 tgattttacc aacatcattt tctgaaaaca caaagctacc ggatatatcc catagctcca 120
 cagtcccctc atcatgcaag gtcacgaact tgacaccagt aagaatgaga ttcttcacag 180
 cagacaggaa gtaaaacttta ttagaattca aaaacatgat ttaaaattat agagtttagca 240
 ctatcatctt taaagcttga acctaaatat cacaaccatc aaacaaaaaa tcaagtcaca 300
 cacaaatgat aaaactataa cctaagttta caaaaaaaaa ttacaactgt caactggtaa 360
 tcaaggttta aaaaaaaaaag tctgcaacat 390

<210> 18444
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18444

tcttggttgt ggagttctgc tgaaaccttg atgtaacact ctttcactat ctatttaatg 60
 ttatttttat gggttcattg cttctaacta tgcttatttt acatacttat ggcttgatca 120
 cccatttgta tgtatagtta ggatttttag cattggaaaa tgctttaaag ccttagaact 180
 tggtagagca agctagaaat ctgtatgtct aggaatggag tatagtgatc tagttcatat 240

tatgtttag acttaatgca attcttttag actaagttt ttgagggatc aaggacgaag 300
 tttanagaga gttaagctta ttcactagag ggatcttggg ttgagtagtt tctcagcata 360
 agaatactat gataacgtta aatagagaat aatacacatt atcatcaaga g 411

<210> 18445
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 18445

tttgatttga tactgcttcc ctcatcatgt ggctcatgat gtttacaatt taatgatcct 60
 ttgctaccct gcaatgagac acacacaaat acacaaacac acacacatag agacaaacac 120
 acacacacac acacataaag atacacacac acacacacac acacagagtc acacacacat 180
 aaagacacag acaaacacac tgagccacag acacacacag agaccacac acaaagacac 240
 acacactgag tcacaaacac acacatacac aaacacactc acacacatag acagacatac 300
 acacacataa agagacaaac acacacacac acacacacac acagataaag agacaaacac 360
 aaacacacac acccacacac ag 382

<210> 18446
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18446

ctatagacaa ctcaagcttc atgcatgtat gtaacaattn ttgctattga ctatattaaa 60
 ttgaatatca attcaattca ttgaacataa gccttactta agattgttgc ttgtcaagtc 120
 gtcctaata ga ctatgtaatt aagcgctgca acaatgatct tgtgatacaa cgtacaatat 180
 tttgtaagca ctagggagta gatgcctcct agattcaatt atactttatt cctcattttg 240
 actttcatcc ttgataagct tgatcatgtc atcaattcga aggatagtag cttcagttgc 300
 aaactgggga aataaaaaaa cttcatgctc atgcagttgt gtaaggaagc tgtatattga 360
 agtcaacaat tgttgatatt taactaaata catacctgaa taatttttac ttgctcatt 420
 gcaggctcaa tgactc 436

<210> 18447
 <211> 320
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18447

agtcttncat cactccgtga caaaattaaa ctttccaaca tccctaaatc atcttaaaca 60
 tagccagacc tgcataaaaa atcccgaat tgagactcaa agaagaagct tgatgaactt 120
 gattttcaaa gaggaagagc attatcaatg agacttagcg taggtgtcat cattgttgtg 180
 atcatgaagg tgtcacgtgt agaagcatat gtaatatgaa gttttgatga tgccaaagat 240
 gaaagctatt caagtttgat ccaagtcaag aatcaagaaa ttcaagagga acgatgaaat 300
 tagtccatag gatgttaaaa 320

<210> 18448
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18448

taagaaatct atatatgggt tanaacaagt gccctgttat ggtaccttaa gtttcatggg 60
 ataatttctt catttggttt tgataaaacc ccatggatca atgcatatac cacaagggtta 120
 acgagagtaa aatatgtttt cttgttttat atgtaaatga tattttactt gcagccaatg 180
 atcgggggttt gctacatgag gtgaaacaat ttctctctaa gaattttgac atgatgggta 240
 tgggtgatgc attgtatgtc attggtatatt agattcatag agatagacct caaggatatt 300
 taggttcac ataggaaacc tatattaaca aaattttaga gagattgcag atgaaagatt 360
 gttcactaag tgtcgctccc attgtgaagg gtgatagggt taatcagaac caataccca 419

<210> 18449
 <211> 324
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18449

gaaacttctt tgagaaactt cattgagaag ctagagctta attacacccc cttttaataa 60

ctaagctcac ctccttgaga aggttccttg agaaactttc ttgagaagct tcctttgaaa 120
 acttccttga gaagcttcct tgagaatatt cctagagaag ttagagctta ggtacacaca 180
 cccctctaag agctaacttc acctccttga gatgagaagc tagaagttag ctatacacct 240
 cctataatag ctaagttcac tcccatgccca aaatacatga aaatacaaaa acattcctac 300
 tacanagact actcaaaatg ccct 324

<210> 18450
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18450

gacattctaa cttgttntga aggtttggtt aaacttataa gttttttttt tatggataaa 60
 tgcttacgag tctacttaca tgatctagtt gatttgaagg cttaataata atgagatcat 120
 gattttttat ttttctaaat attcattata gacttaattt atggtgtcat ctttaactta 180
 ccatcactta tgactatcac ccaaaaaatt ataaccaaga ttatattaca tattactttt 240
 catcaaatca tgtttgactt gaataagcct cacttgtaa aaaaatctaa aatcaaagac 300
 catcaagtat ttatcatata tttcacttgt taggcttgac ttaatcattc ttagcttata 360
 tagttatgta tgtcaaacta cttgttaggg gttggacttt caaataggac aaatcat 417

<210> 18451
 <211> 353
 <212> DNA
 <213> Glycine max
 <400> 18451

ttcttcatgt atgtaattgg taacagtact aaagactaaa gagtgaagag tagtggttta 60
 gtgggtgcgg ctcgagagag aggaaagtaa aaggggctat agaagtggga tgtctacggt 120
 gggccacggt acagttaaag tcaattggga ccgggtgtta aggagcgatg attacgggtt 180
 ggatttctaa tcccatttgt gtcgtttctg ttccttcac attcattcac tgcaacggat 240
 ccagggactt gttactatgc caataccctc acaactccaa actatattaa taatcaatta 300
 aatcttctc accctaccat tacacaccg ctcttcacca taataattat tct 353

<210> 18452
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18452

tgtactctac atcctgtgat aacataataa gcaaattctt actaagtaga ttaagtctct 60
 tactaagtaa atgcttatga atccctacta ctaccata^gg cagtgaatag attacaaatt 120
 ttcaatacca acttggtaaa tgcaaagata aaactatata tagttgttga tgtttcatct 180
 caaaataaca ctaatcacac aactttgaac attaacattt tcaggtatca ataattgata 240
 tcatgaaacc ttgacaaata aataatattc tttccaccaa ttatcatggc ataaaaaagc 300
 ataacataaa ataaatatca tatttaa^gtg ttaaatttgc tgaatgtgaa tggaaaaggc 360
 taattaccat ctttntcaag gttttctoga agcttctaga t 401

<210> 18453
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18453

atcttgc^{atg} cg^{ttt}catgc aaggcttttg ccatgaacag gcttcgagtg tgcattgtct 60
 tctctgttgt acgtggtaca acaagaggca agtgatgagg acattgaagc tcaaggattg 120
 acaacaagga ttaggaggac ctatgactag agccagaacc agaaaggcag aggagaccct 180
 acaacaagtg gtagcaacca ttcttgaagt tgcacttgca ataaagaaca ctgaacaaaa 240
 attattccaa tacatgatta ttattgaaga cccatgagct agagggtgtt gatgctaact 300
 ttntattttt attttttttag aattaaataa agntgtat^{tt} cttttatttt attttcaatt 360
 ttcttttatt ta 372

<210> 18454
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 18454

tgctt^gtagg gcttctatgg aggctggatc tttgatcttc aatgggggtcc tttaatgg^{tg} 60

attttcgacc atggagatgc agcgggaagac aaaggaaaag aggtgagagg aggcgccatc 120
 cattaaggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
 gcttgggaagg atgcttcaat ggaggaaaat aaagaggagg agaaagagag agggggggagc 240
 acgaaattga aggaataaaa gagggagaga agtggaactt tgaattatgt ctcaacaagac 300
 tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct 360
 tccttgagaa gctttcttga gaaaacttcc ttgagaagct tctttga 407

<210> 18455
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 18455

ttgcaataaa cgtgttttca tgacaaatgg aacgaaaatg aggttttgaa aaggtaaatt 60
 gatgacactc catttttata ttctcctaatt cttctttata aatttttgaa atatgatgaa 120
 ttatttactt tctattattt attctttcgt ttttctaaaa ctaactctct tttttaaatt 180
 aaagtatttc acccaattat ttaacttaca aaagcaaac cattaaatag ttgttcaaaa 240
 cttcaagatt atacattttc ctgtattttt aacacaatat tatgtttgaa ttttaattctt 300
 attttaatat atcttattct ttatgcgaaa aaaaaaacat aaaactcatg tctatat 357

<210> 18456
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 18456

taccacctcg tgatgccttc tggctttgga ccttctctta tatttatagt cctctagctc 60
 aaggagggct aaccaccctt tgtaaactga aagagacata gatcattccc ttgtttggaa 120
 cgatccatca tcgctatatg ctaactatca atatgaacaa ctttatttta atttatttca 180
 aactcttcaa ttagattatt catgaatgtc aatcgtaaaa aactaaaact cacaatttca 240
 agatgaaatg cctaaatgta aaacgatcaa atgaataaaa tcatgtgcct catgatagtt 300
 ctacatgtta tcataagatg cattaccaga acaactcagc atgaagttac acacacaaca 360
 tgcatacatg tgtatatata tacaactctt aaaaagaaac a 401

<210> 18457
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18457

cccgggatcc tctgagccgc cttttgcatg caatcttgta gggttaaagt ctactattg 60
 tcacgtgctc atgcaacaat tgtagccat ggctatgcga gacatcttgc caaacaagt 120
 cagggttaacg ataactcgcc tgtgcttttt cttccatgct atatgtagca aagtcattga 180
 tccagtaatg tttgatgagt tggaaaatga agccacaatt atactgcgcc tgttgagat 240
 gtattttccc cctgctttct ttgacatcat gattcacttg attgtgcac tggtcagaga 300
 aatcacatgt tgtggctctg tntatctacg gtggatgtac ccggttgagc gatacatgaa 360
 gatcttacta ggggtatacag agaatctata tcgtacagaa gcatcta 407

<210> 18458
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 18458

taaaggagca ctcaaatcgg gtgtatttac ccccatggcc tagactccga agagtccgctc 60
 agggcctctc cctcctgatt cagggtccaac ccaaaaaaca ttttagcaca cagactttat 120
 ctatgaactg tacaaaatac acgactcctc aattgttctc aaaataattt tatctaactg 180
 cgcttgtgat taaactcgtc aggtcccaac agtggttccc atcataatac tcgccacgca 240
 ttaactcgtc gcccttagat tcatagttca caaatcagtg cacacaacat ctcaatgcac 300
 atatataatta caagtcaata cataactcaat ttatcacata catttggtct caatcacagt 360
 ggtataatct caatttaaca tggtatcaca cctcatgaat catataca 408

<210> 18459
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 18459

aagctcaatc tgaccttcat gattttcttc gaggtaacca tgattttaag cttgggcctt 60
 ggtagtttaa gcttatcttt gcatcttttc tgactttgga accatcattg tacgttttac 120
 gcttccttcg aaaaaactta aagaaaaaga cttttgtaaa gttatctttt tatgaaatgg 180
 atgttatctt cgtgaccttc actgaactct ggtcacattg gcatgatcga aatttcaaaa 240
 tgatattcct tttcgtaaaa tccgaaacaa cctcatccc tttcatgtag tgacatgagt 300
 atttgactca gagtattggg tgtaactcta tttctgaaat ccatagt 347

<210> 18460
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 18460

tgacttgccc acttacatca accagtatat tagcattctt gatatccctt taaaattgaa 60
 taattgaatt gaaatgttca gaatgtagca aatcaatgca aattcaagat atttaagaag 120
 tcaatttcca agcactgcat ccaactttca tcttttgtaa tgattgaaag tcaaacattt 180
 ttcactgtct gaataaaatc tgtaaagca aaactctgct tcccaagcgg agaatcatac 240
 tcagtatctg gtttctcaac aattttctca atataaatat atgtgcaa atagagctataa 300
 catatcctct aatatatgaa cataaataca ataactatgg gtaacacatg actagaatgc 360
 taacttgcaa gagagagaag tatatgatag gaattaatgt act 403

<210> 18461
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 18461

ttcttgccca attaacctga aattgagaga aaatgattat taaacacaca aaatgaaaat 60
 actaagtatt tattacctat acttaacaga gaatacttat aacattacaa aataaccata 120
 aattgggaga gtttgataca atttatacaa gttttataca taaaagttag tcattttcac 180
 cgactaacac atagttgcta gttaaattga agcacaagtt gaaatatatc atagttgcct 240
 agttatgttt tatgctgggt ttttttctct aatgtttgtt tttaagtagt tgcctagtta 300
 tgtaaactc agcatgtaca gggagtattg ttccgtctat aagggtattg atata 355

<210> 18462
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18462

tgtccattnt aagggtcata gaggatcatg tatcgtcaag acgagcaaag gaatcatcga 60
 gggtgtggga gaccataagg acaaacgaga gcatcaaatt ttacgaacaa aacataatgc 120
 aggaaattaa agagttggct tcgaggcacc agaacctcca gaggaagaag aagagtagag 180
 aggagagtaa tttgctaatt tcattcatgc ctgatgctat tattacatag tcatatatgt 240
 actgcattct atgtaactaa ttttggcatt ttgtgatttc tagaatgttc agaactcagc 300
 aatttggtta ttcttgtccc ttaaaggcca acatcaaatt ttccatcctg cacacaacac 360
 tcttgcacga tcatgctcaa atgaagtcac t 391

<210> 18463
 <211> 230
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18463

ccggctgcct gtgcctgtcc tgtctgancc cctggaaccc cttttcgctt gccccgtttc 60
 ggagagacgg cagcgaaga cagccccacc atgccaggc gttaacttga tgtattactt 120
 caataccctc ttaaaacct taaaaagttc cccttttatt cacacctata agctctcgaa 180
 tctccgttac cttttgatat tatacatatt gcaaaactat tgttccacac 230

<210> 18464
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18464

tctccncaa ttttctataa ataggggaga agtgaagtag aaaagggttc agccccatag 60
 gcacttctct ctatttcgaa tttgcttagg aaaattgttt cttgaagaa aatccaagcc 120
 gaggcgcttc tgtaacgttt ccgtgagtga tttcgcgaag gttttcgacc gttcttcgac 180

gttcttcatt cgttcttcat cgttcttcag tcttcaacgg gtaagtacct caaaccaagc 240
 ttttcaattc attttatgta cccgtggtgg tccacatttg gtttcatgta tttttattct 300
 cgttttcatt tactatztat agcccctttt gacgtgctta agccatttta ttttaagtcac 360
 ttctcgctta acctaaaaat aaaataaatt tccaccga 398

<210> 18465
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18465

tgctttagac aactaaaaa aatatttatt attagatttt ttaaacaaaa aaatcacata 60
 tgttgaaaaa atattctaca tagttagcaa aaaaaaaaaa aactcaacat aaaactttca 120
 tttaaagtaa aataaaaatt cttaaaagtt gctttagatt tcagtttcag ttggaccaac 180
 ccttggacag agatgcctat ttaacaagcc gcaatagaaa ttaacttttg ctgtatattg 240
 taaagcaata ccttcttata caatggaccg tttctgtcaa aagtatttnt atatgtaaga 300
 aaacagaagt aggtgggggtg aagatcaaac acgaagtgtc aat 343

<210> 18466
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 18466

aaaactcagc ttgggcttcc catcttgtga aagacatgtt gaaattggaa gggaaaattt 60
 cttcaaccaa tgtagatgtt gccatatatg atagtttgac acattatttt actttgctgg 120
 ttctgtgctt aatcttccat ttatattgtt tatattttga aactattttt cactccacaa 180
 tgccattttt tgtttacaaa gttagggatc tgtaaataca tttttcagaa tgtgcttgctc 240
 acaacttaaa atagcatgag aaactatctt tcccctcctg tatttgacac atacacactg 300
 aaccttcaac ccaaaaatgg aaaacaaaaa caatgacctg tattggcttt tacgaaagcg 360
 attgcatttg gagttaccta tctctgatct aaatttct 398

<210> 18467

<211> 385
 <212> DNA
 <213> Glycine max

<400> 18467

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agcttctcat ccttggtttt cactcgtctt gagtatcaag aagtttgcag ctaaggttgt 60
tttttttttt tttttccatt ggaggcacac attggtttat ctttaaatta ccagtttagg 120
attaatgata tegtccatc ctttatatca aacgttctag cggatgtatc ttcgatcgtg 180
tttcagtgag gtgtgtttta ttgagatgtg ccggggggaa tccccctgtt cccacaaaac 240
acacacacac acaaagtact ctaaaattta agttgaagaa ttatgttggt tttagagatc 300
ttattcaacc cgagcttgat aagatgaata aatgtttcag aaacatattc acttctgggt 360
atgaaaataa aaagaaaata atgtt 385
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<210> 18468
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 18468

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agcttgttca tccaataccc tgatgaggat gtcccatatg ttcttaaaac tggactgatt 60
catttgcttc caaagtttca tggccttgca ggtgaacacc cgcacaaaca tttgaaagaa 120
tttcacattg tctgtccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180
aaggcttttc ctcatcatt agagggagtg gccaaggact ggctgtatta ccttgctcca 240
aggtccatca cgagctggga tgaccttacg agagtattct tagagaaatt tttccctgct 300
tccatgacca cagccatcag gtaagatatc tcatgtatta gacaactcaa tggagagagc 360
ctgtatgagt actgcgagag a 381
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<210> 18469
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 18469

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ggatatattc attagagagc tgtgagtctc tatgtctttg tgtataggga ttggtgtctt 60
tctcttttgc ttcttactcc tttgatagge ctaaggtagc ttaatttcca cgcgacctcg 120
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ctcttagtgc gggcttttgt gctaagcgtg agctagtcgt taagcgagga gaagtgctaa 180
 tgacaatcct acaactgccc aaatacaggg acctatgacc aggagtagga ccaaataatc 240
 agtggatacc ctccaacaaa tggatcagg cataacttaac aaggcccaag tggagaaaaa 300
 tgaaggccca gaggcagagg cacttccaag aatcttaatt gttgttgaag gccacacta 360
 ttctgaacgc acatgccgaa ctattttttt gtcattttgg cccaaactaa tttgaaggcc 420
 catgc 425

<210> 18470
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 18470

tgcgattgag aaggaccata ctgtatcacc agaccaccca cacagtcaca tcataacta 60
 gctgcaccta tatatgctga cagaattcat aacgcattga agatacccaa cgtataataa 120
 ccagagtacg attaccatct caatctacaa gtttatctcg gtgtgatact gtatatccag 180
 tgatgttaca cgctcatatg ccaaattatc aacgctaact atcactatga ccctagtgtc 240
 tctgacccta ctctatttct atgagatgca tgatcttggc aatgatgaca aaaaaccacg 300
 ttcggatata tacggctccc aaggggatat tacataacaa cctgaatagc acccttttcg 360
 tgtaccatac g 371

<210> 18471
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 18471

tatcccatgc ctttatagcg gatgtagcat cacaaatctt cttgtacgca tcatcatcta 60
 atgctcgata gatgatgaac agagctttct tgcctctctc tcttgaatcc ttaaaagtac 120
 ttctttggtg cttggaatat tgaagtctca tggtgcggct ccttatagcc tttttcaacc 180
 atttcccaca cattatgtgc tccaagacgg gcttccattt tgatgtcca attgtcatac 240
 gtgccccct atacaagtgg aacttggaag gatgacgtcc atttcttaca ttactctaga 300
 ggaatttc 308

<210> 18472
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 18472

agcttatgag aattccaaat tctacaagga caagaccaag atgatacatg acagcttgat 60
 aggtaataag gactttgtgg ttggacagaa agttttaatg tataactcta ggctcggact 120
 catgagtggt gagttgaggt caaagtggat taatcctttt gtggtgacta atgtttttcc 180
 ttaagggtaca gttgagatca aaagtaaadc cacagatatg agcttcaagg tcaatggaca 240
 tcggctgata ccattcctca caaatccttc cttagtggat gtagtggtgg aggagacctc 300
 cttacttcac cctacttctc ttccgccatg acttagggag tatttctttt tctatctcct 360
 tctttacttt tattgcactt gtccaa 386

<210> 18473
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 18473

ctctccacta aattgcctaa tgcctgagat gtcttttctg atggcagtgg tcctagattc 60
 agggaagaat ttctccaaga acaccctctt aaggatcatc tagctgaaaa tagacctggg 120
 agcaaggtag tatagccatt cttttgccac tccatagaat gatgaaaagc ctttaciaag 180
 atatgatcgt cttggacatc cgggggcttc atgggtgtaac aaacaatatg gaactcctta 240
 agattcttat gaggatcttc acctgcaata ccattaaact tgggcagcga atgtattagt 300
 caagtcttga gaacatatgg aacaccctca tcaggatatt gaatgcacaa gctttcataa 360
 gtgaaattag gtgcagccat ctccctaata gacctgt 397

<210> 18474
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 18474

agcttctaaa ctttatataa gaatgaagct ctgataccac ttgttagaca agtggcctca 60

gatatcttaa gaaggggggg ttgaattaag atattccaaa ctacttacc aattaaaaat 120
ctatttcact ttttattcaa gttataaaat cccttaacaa tgaacttctt aaatattaat 180
tcaaataaaa aaattttgaa tatgaatata aagcaataat aaacaaagga gtttaagaga 240
agagaaagtg caaactcaga tctatactgg ttcggccaca cccttaatga attgagcact 300
caaataattc cttaatgaat tgcaattgaa ttggccaagg aattcttaag aggataatat 360
gattttgctc tttgatagga caaa 384

<210> 18475
<211> 422
<212> DNA
<213> Glycine max

<400> 18475

tgaataagtt ataagttggt tggttctcta gttcttatat tgtgctattg cattatatta 60
aatggttgggt acaaagatgt taaccaattt ttctaaccat aataataaat tgtttcacca 120
agttaaagta atttccacca agatgtcaaa taaaaatata ttcaattaaa acatggaaaa 180
caaaagaatc aaccaaattt gaaggagagg aatgaaatgg ggaaaagaac atgcaattag 240
cagcaaaaag tggaagatga aaagttatct atagaatagt ttttaccata tggatgccat 300
cacccttctc ccctctatac aaggatcata gttgatatag ataacaaatc tttttctttt 360
ttgccaacta cttgttggtg aggtgctatg agcaaataat caacagatca aatcatagaa 420
ag 422

<210> 18476
<211> 373
<212> DNA
<213> Glycine max

<400> 18476

cttcttctgc ttgcaatttc gagcgtctcg atatatgaag ggactcaatc ggacatccga 60
gtatattatc ttttttgcac tgtgaagcac gcaccgagct tctgttttca atttcgagca 120
ttgtgatgca ttacgtgact aaatagaaca ttcaagtaaa atgctattgc cgtttgcatt 180
tgctacaagc ttctgagtta aaagttattg cagtttgcac ttgctacaag cttccgcttt 240
caactacgag cgtctcgata tattactgga ctcaatcgat catcagagca aaaagttatt 300

gtcgttagaa tttgttcagt gcttccgttt tcaatttgga gcgtatcgat atattacggg 360
actcaatcgg aca 373

<210> 18477
<211> 424
<212> DNA
<213> Glycine max

<400> 18477

acagcagatt ttagtaatga ccactaacc tattattaaa ataacttaat accattaacc 60
tagggaatta aaaaaaactt aatggctgag tgtaactgaa attgtggcaa caaaagtca 120
ccccaacag ccaacaagtc agccaccatt tggctctcca aaaggctgat gcctagggtg 180
ccaattgggc ccttattaca acttgaacta aacctaacta aagcccttta gttgattaac 240
ccaaaacata tttttggtca gccaaactta caaggattgg gccattattt agacaaacta 300
aacactctaa aattgaaaca aagtgggtgc atttagtcct cctccatttg ggccatgata 360
caactcacia ccttggactt ttctccttga cacttgggct tgtattcaaa tagtatggac 420
aaca 424

<210> 18478
<211> 247
<212> DNA
<213> Glycine max

<400> 18478

gcagcctgca tttttgtgca ttttgcctag tgagtacatg actttatgtg ttaatacgt 60
tgtaattcac aatttttgta cttttctggt tgaagggtct taagcatcta tacagatctg 120
ggaataatca caaatttagt gctcgtccag cgagcgcaag cattacgcca agactgcgtt 180
attgactaag ctgtacctgg gcttatcaac ggatatgcgc tggaccacaa ttccgtccat 240
tgttcaa 247

<210> 18479
<211> 375
<212> DNA
<213> Glycine max

<400> 18479

tttcttcgtg ggtagagggg ctctgtctca tataatggct tgatcactgg ctgacatatt 60
 ctcaattagc tctgttgctt ctttcggggg cttcagtttt atctttcccc ctgtacaagc 120
 atctaatagt tgcttggttt gtggctctca cccatatata aacatattca attggattgg 180
 ctaagaaaac ccatgagtgg gagtttttct taacatgcct ctgaatctct ccaatgcttc 240
 actcagagat tcatcacgaa actgatgaaa tgaaaaaatt gcagcttata cttctacaga 300
 cttggactct gggaagaatt tctttaggaa ctcttcaaca acttcttcct acgttttcag 360
 actgataccc ttaca 375

<210> 18480
 <211> 244
 <212> DNA
 <213> Glycine max

<400> 18480
 tgttttattc ttgagcaagt cttagtgaag gcagaacaat ggtccatccc ttatgagtct 60
 agcaactgca caaaggggtga aagataatac aaatcatctc caaatgatca atcttgatca 120
 cacaatatac atatgtgttt aaaatctgat atatagacta tgtgtaaata caaatggcaa 180
 aagctctgca catgtgctgc ttacaataaa tactggcctc cgtaaaactac tattaatcat 240
 ccca 244

<210> 18481
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 18481
 cgggtcaagt gatacgggaat tgtttataag gtatgttgat ttatatatttt catggaatca 60
 catatcttga taataatttg agaattacat atgcgctaga ctttgaaata ttgtatttat 120
 tagggtagcg tctctgatgg acaagaaatt gctattaaaa gattgtttat caattctaac 180
 caaggagata cataatttaa gactgaaatt tcgctaacag gaaagcttta gcaccgaaac 240
 ttaattacac tacttggtct ctgctttgct aaaagagaaa gatatttgat tatgagtttg 300
 ttcccaataa aaacctagat ttattatatt t 331

<210> 18482

<211> 736
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18482

caactcgctc tacttcacta ctacantatc tacacactga tagngnagta atatattaca 60
 ntaagtcact gtataantan agcaacacnn cnnnaaaciaa gaganagnng tnngattggt 120
 ggaacgtccg ttgacacann tanangngac acatacnnta tcntacgtca ccacgagagc 180
 actactatta gtagtctgag acgtagcagg acctagactg tgtctataac aactgaacac 240
 acgctcatga gaacgctatc gcagggacac cgatantaca agtggctcgt gtggacgaca 300
 tatatgagac atagtcactc tttgtatcat aacagaaaca gagcagactg caagctgatt 360
 gatnctaaac aactgttgat acttacaaca agtcgggtggt catatacaca gcttcgcata 420
 gtagccacgt tacaatatga gcatgcacat gaacgcttcg tactacacaa atacaacctc 480
 gagtgatgcg caacgacaca tgctgcacgt acgagagata catgagcaag agtatagaca 540
 ctcgacaact gattgactgc aatggtggaa cgtacatgac ctcggatgta acaacgacga 600
 caagcatact gagcggacca ctaacactat catactagca aaggatatat actctacgcg 660
 tgtaaacacac ggcgcagaaaa ctacttcgat gcggctgcac caaactgaga gctcaaattcc 720
 ctcttgctgc ggggtcg 736

<210> 18483
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18483

cccactttac ctctctgat cacattgaat tcaatataat taaacacaan acagagggcg 60
 cgtgtgatca tcgatacaca caaaacattc tcaacggctt gcgcccacaaat tgagcaagct 120
 atccattgat ctcgaaacaca atcctagcga aaaccgtact agtgtcataa tgtacaaaca 180
 ctggtacca aatatatctt cctgggaacg acaacattga aggaatccca tctcaactca 240
 tggccgccac gcacatggta agacaactct agatttagct caactagcct tatgagtagc 300
 tgagaccct ccatcataca cgattaggct cctgccctaa ctaatttaat gacactttat 360

tcgaccctat atatctatat tcaagcccag tgtacctccc atgtcagtaa taacaatgtt 420
 caaacctatc tacgaatgca ggcatacagc gcaccctcag ttgcgaaatg accggatact 480
 tcacatacat cgtatcgaca aacg 504

<210> 18484
 <211> 541
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18484

ccaccacta caccaatatc ncatccctct atactactcc tcactcacta ataaatatca 60
 cactaaaaac aaaaaaacga ggggtgaaatt gatgcgtcga taaacaacaa gacnaaaaca 120
 caacgacca ggatccacaa gagacgaccc gcacgcatgc tttcttcatt aaccatcaca 180
 taagcacaca gtagtcataa gttcgcgaaa ggtacacaat aaaatccact ccatatgaaa 240
 cgggtcaciaa caaagacaaa acacaacgaa taatcaccac catcatacca cacaacgcta 300
 gtgaaactct caatcccaca aaagtccttg aaaatgtgtc agaaacatga caacctggat 360
 cgtaaaaaac taaacattgc acaacagcta ggtcaactca atcattcaag cacaatgcga 420
 ataactagt acgcatcat ggtaagcatg tggatgggca cacaaaaaaa acatggctta 480
 ctcgaaaag aaaaaagagc tacgcatcat caattcccta acccacaaca aaccaatcc 540
 n 541

<210> 18485
 <211> 225
 <212> DNA
 <213> Glycine max

<400> 18485

ccaatgcgct gatcatttta cgaagatctg tgatttcctg agtgatcgtg agatctctat 60
 aggtggagga tacatcccac ctcccttgca cggaagcaat ttgtcttggc cgctcttctt 120
 cattattaaa ggaacttcct tgctatggaa ggctatatcc tcagatgtgg attcctgctg 180
 aataatcggt gtatactctt tccctactta acaaatgatg tttat 225

<210> 18486
 <211> 701

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18486

ccatcaacca cccatacn cn nactatctcc caccgagaagc agtaccaaca atacgggcag 60
atggtaaata cacttgcgac atcacnanan naccaagagg agcacgnagt tgtagaccct 120
gtanacactn gagagaacac aggcnaaaca caccgctagga ncatcgcgga atacaaaaga 180
agtggacacc cgcgtgtttg tcaaacattc gatacactaa ttgaatcgac ggagtgcagac 240
tacgatgcat cgatactaac atcactaaca caatcagaga atgacactgc aaccgtatct 300
ggacgaggga gacacagaac nagtcaaca ctacacacac cggtacaga atatttagtg 360
accgacgacg agcgagagg tatatgatgt gcgtggtgtg agtacacagc agcgaggcg 420
aaacgagtac agcttaggac gaccgagagg ngataacaga cgagacagga tagatagttt 480
ggcgccagaa gatatagaat gggcaacacc gncgtgacga gatacataag cgaatacaca 540
gcgcgcggc gaaccttgga cgacgaacga tatacggcag tagcgagatc cagtcgcgtc 600
gccgtgtcat cgcgtgcaag atcgggcaag caactatcgg cagtagcgaa gggcgcgtag 660
agagaattgg cgcggcacat gaggaagagt aaaaacatcc c 701

<210> 18487
<211> 375
<212> DNA
<213> Glycine max

<400> 18487

agcttatctg ataatatctg tgagttctac actctaact atcaatatct tctatgtttg 60
ttaacttttt ttctgctatc ataagtaatt gatgcatttc atgtgtgaat gctaacaaac 120
tggtctgcca gaacctggga aatgtttgtc ttggcattct aaacggcttt gaagtacggt 180
tggaggaact gaatctagtt ggaggtagga attttgttgt gttgttacca tctcttttct 240
tctagttccc ataccactcg cattacaatt cctaacttca tcagcagttt tcatcaaaat 300
gatgtgtaaa ctctgcacta tgtaaactctt ggtatttatt gtttatgcag acatattcat 360
gcaagacaaa gtgat 375

<210> 18488

<211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18488

ntgaacatga ctgtatgac aagttaagcc taggcttgtg aaagaaataa agttgaagaa 60
 attgaactta atagcatagt tcatatacac tcttaccctaa tttttccttg ttggcaatgg 120
 caacttcaaa ggttgccctt ctcaattcat ggcattcatg acatgggttat taaattctcg 180
 agttaactca ttaactctta cgagtttttg agtccactta gcatatgcga gttgattcat 240
 gtgtaaactc tttttcagta gactttgagt agactctata aatcttaagt aaatccgaat 300
 ttaccaccga gtcaatgaat taacaagtta aaaaaattat atccaaatgt aagtcattta 360
 gagtcattct tagttttgtt agtgctcaac atacctttca ttaacgtgtt attttcaa 418

<210> 18489
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 18489

agcttgccac ccagctcgcc caggcgagct aggttgcttc ctccagaagc aactgccttc 60
 tggaggaata ttctggaagg cccaagtggg gcctatttgt tatttgcacc cccattttta 120
 ctaaatacac cccttgatct tttttggtga ttttttttcc gtaacgttac gaaactttac 180
 gaatttcata acgatgcttg ttcgctttcc gtaatgttat gaaaccttac ggattacgta 240
 atcatccctt ttttgccttc cggaacgcta caaaacttta cggattacgc attaacactt 300
 ccttttaatt ttcggcatgt cacagaactt cacggattgt gctacaatgc tttcttttga 360
 cttccggcat gtcacagaac ttca 384

<210> 18490
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18490

tgtaggatta tgggggtaccc atcacatgtg gtactatgtg gcggtcgggc gatggtgcac 60

aacaagtttt ccacatccac aatgcgcgca taaaccacc atcccctgtt gccacctcc 120
aactgagctc acgtactccc acgtagccca taccctcggt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc acaacatcca agcaaaacaa cattcaaaca gcacaagcta 240
tcatagccaa gcaaaacaga gcaaaggcag aaaattctgc tcaacacatc aacaaaaatc 300
acagcttttc tcaacttaaag accacagtaa caattccttc gatccaattc gttaaccggt 360
ggatcgactc caaaattnta ctggaagtct acagtgcata agcctacatt gtgaccgttg 420
ggatctact 429

<210> 18491
<211> 383
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18491

agcttgatag tttacttaga gtcacccctg aaactcccca aacttccgaa ggaacatcat 60
aaaaaagggt aacaagaagt acctccaaat taattaatgt tcttaatgaa gatagtaatc 120
aaaacttaga aaacacattt aagatagggt cagtatccga aaaatacata aatccaataa 180
attccaaaca ctggaaaaca ccctccaaat tatattatca aagaccaact gccccgacc 240
ttctactaga agaaatagggt gaaagtaatt ntaaaagttt tagtgcaaata aacatctatg 300
agtggaatat agatgccccaa acggagtata atatcatgaa tacactccaa catatgacca 360
tggtagccat agtctaccaa gca 383

<210> 18492
<211> 427
<212> DNA
<213> Glycine max
<400> 18492

ggtcaactcg cacgaacaaa ctttgtccca cttgcatata agtcctagtg tcttccatat 60
ttccatgcc aaaaaccggt aacaagaaag ttcaactgcaa gcttgaacca attgactatt 120
cgaagttgag ctaagaacaa cgtagatcca taagtatagt tcaacttattg gacaatttta 180
tacgatatta aatatattac ctgtaagtta actacacctc cagacagaga gataaaaaaa 240
ataatataaa aaggtacaag taaacaacta gaatatataa agcttcaaac tcgagactaa 300

aaaacagaaa gacaagttat agaaagatac aagtaaactc ggtagccaat aaatgggttac 360
atcttttttct agtaattaga gcagcttcta ctatgcctca tctgaaaaga ataaattaat 420
taattat 427

<210> 18493
<211> 388
<212> DNA
<213> Glycine max

<400> 18493

agcttcaaag aatttgtttc agataaggac atattgactg tcttaacatg ttacagacaa 60
atacaatgat aaagctcaaa gtcgaaactc tcaggatgta caagggtgtt tgagagttgc 120
gttcgaagtt agaacaaaat ttacaaagaa tttgaatgct taagaatgct ttgtccacac 180
gttggttttct ctaagttcag ctcatcaaat cttcaactat ttgtagactt cagtaaaagg 240
taaccattgt gactgtaatg acctccatcc tcatcttcgt ctattggtaa aggtgttcgt 300
tgaaacattt aatgcatatt accaacttgc caaactaata tgataaaaca tgttgcttat 360
cttcatttac ctacattcca caagtatg 388

<210> 18494
<211> 424
<212> DNA
<213> Glycine max

<400> 18494

tgtatttcaa atattatggt gtgcgcttgt tgtaacatgt tatgtttgct actgattttt 60
aattctttga ccctttgaat gaccaaattg gctttcgatg tcttcatgag actttagtag 120
aattttatcc ttacattca agcactggta tcatgttatt tggaccatta caacataatc 180
aatccttaaa gcattgcagt tttgttatat tgtgaggaca aactgacatc tctatcttca 240
tggtcagttt ctccaagat ccaagcctta tttgcccatg acttctccat aaaagatata 300
tatatctttc tcttagcttt ctacaaccac tgagatcatc ccaaattcac tttttagtag 360
caagtagttt tcaaattatt gcacacatat gaaactgtca aggcaaacca gcgtctttaa 420
cttc 424

<210> 18495
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 18495

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agcttgatg gttaaagtct cagcattgtc acgtgctcat gcaacaattg ttagtcatgg 60
ctatacgaga catcttgcca aacaaagtca ggtagcgat aactcgcttg tgctttttct 120
tccatgctat atgtaggaaa gtcattgatc taatcaagtt tgatgagttg gaaaatgagg 180
ccgcaattat actgtgccag ttggagatgt attttcccc tgctatcttt gacatcatga 240
ttcacttgat tgtgcatctg gtcagagaaa tcaaatattg tggtcctggt tatctacggt 300
ggatgtaccc ggttgagcga tacatgaaga tcttaaagg gtatacaaag aatctatatc 360
gtccagaagc atctattggt gaga 384
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<210> 18496
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 18496

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ttacggacac tatgaatctc agcttacatg gagctacatc aaggatgatg gtatatatgg 60
ttccagaaac cccaattgca aatcaaacta cttcaacata gcctttggtg cagcttttgt 120
ctacttttat ccaagttatc catggaatac ttttgaaatt tttctatttt tgggtcttata 180
ttgatggcat ttggtgcgct gatgatgagt ttttgaagag agaagtgcta tctttcttta 240
aaaatctttt tcaatcctca aatcaatgca aacctggtag tctacaattg atttccattc 300
ctcaagtaga ccaaaatctg tatgatttat aactatctca tatttccatg gatgatgttc 360
aaaatgtcac tttttttatg gattcctaca aagcccttaa tgtagatgag ttccaaccta 420
tcttttttaa gacttactgg ga 442
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<210> 18497
 <211> 747
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18497

gacctcgctt caantacatc tactatcatt cgtcacacac tacnttatgc cagagtcaaa 60
 aacgcaatnt atcantacnt anctacacaa aaanannaac gaggagacaa cnnctgggtg 120
 accattcgat agactctacg gaganactca nagactcagt naccgcgcgc gacngctcat 180
 cggatatctca ctctagcata gacatcgcat agctgtgttn atgactgtct gtaagtcgaa 240
 tgcaggacaa tatctatagc gcgagagcat ctactcatct acacaaatcg acacgaagct 300
 gtactacaga tacatatcgc atggatatagg ctagtaataa gtgtggacac acaagttgac 360
 ccatctatag gaatgataga caatcacaaa cagactctga gctacatacg catcactacc 420
 accttttagga accaccacga gagatgtcgc tagtctgcat cgcctgcgtt cacttaacag 480
 agctccatct attgtgagag cagcacatat aacggcacac cgacctgctt catctgcgct 540
 acaaagatac tacgtgagga tacgatcagc atcttcatat atctaggaca gcatagctga 600
 cctcnacacg atgatcgagg catatgatca ctagatatga ctcaattata tactgtatcg 660
 acgcatgcta cgtnttacia gcgcgacacc acatcactct tggctctaca gttcaacgaa 720
 ctctgctgact gagcaatgac gatatcg 747

<210> 18498
 <211> 518
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18498

ccactccttt cttatttaat atagtttgat tatatccaan caccaacaag aggggcttgt 60
 gctcctgacg acaccaatat tatagagccc ccgccctatg gactgaacaa gaatgagata 120
 gatgtgtttt cttatttggg ccgataaaaa cacggacata gttttaactc tcaatagagt 180
 ctactaagg aacacattct gataatgacc tgacccttgt ggcacatggg acctttgaaa 240
 gtgtatatga aataactaagt gaatgcgcgt gtggagagct gtccatatag taacatatat 300
 gataaggtag agcttaatgg ctcaactcgt catactcgat agctcacgtt tatgacaagt 360
 ttcttgata agctatagca tacttactgc caccatcta gaagctatac tacactcctt 420
 agcaggagaa gctaaagctt agctccgtac accgctctag tagactagca taccacatgc 480
 cggatgtctt gtagatacac tacaaagatg gtagcacg 518

<210> 18499
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18499

ccaacgcact tgacaaaaga tatataatta gtactaaaat acatacctca tananacgag 60
 gtganctgtg ctcgtaaaca cgggcacaaa cgcgccggag gacctagcat caccggcagc 120
 atcttttttaa caccttaagc tacgactagg tagttggccc aaaaggaacg gtccttgagg 180
 aaaaatctag aagccccaac aggacacaag gtgcaaaaaa ccgagacgtg cgcggcacaaa 240
 aaaatcctga tatagcaagg aacacgtagc cctaaagcac tctacaagag aaaaaaagct 300
 ctcaaatatt acatacagaa aaggggtaag cccgaaacct cctaaccatg tcccaaacta 360
 aaactaattg tggaccctta acggggttga cttctgacaa caaaaaaac gaggaactca 420
 agacttatta gatcgaccat aaaaaaatac g 451

<210> 18500
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 18500

agcttctcta gaattttaac attttgaatt gggcttagtg agcagatgcg ctaagcgcaa 60
 gggctcttaa aactcaaacg tcatatgggc acgctaagcg cagctgtgcg ctaagtgcac 120
 catacgaaac tgccaaatat tataaggtac ctgccgtagg tagttaccat ttcactcttg 180
 ttgtgcatta aggccattca ttgcatctac cctcaacttg cttcatttcc ctgcattcct 240
 gcacctttgc tattctttgc attcatctac acaatccaag taagtttctt tactttactt 300
 catttcgttc taagttttca accttaggat agataattta gtgattgtta ggtagaatct 360
 ctgtttatgc 370

<210> 18501
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18501

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atggcgctc ctctcacctc ttctcctttg tcttcgctg catctggaaa atcaccatta 120
aaggacctca ttgaagctca aatatccagc ctccatagaa gcccacaag caagcttcca 180
tcagaatggc aggggaaaat ggtccttttt ggtaacctgg ttcagcctgc tatagtcaat 240
gcagactctc caactgttct gcacccaagt aggaatcagc tcctccttct cattntttat 300
cacggtgagg cgggttttct tcaggattac ctggacagaa ctcaccatt ggctgtcgga 360
gataggataa atgattccag ttngcaaaag cttggttacc tccttcttca ctacatcaag 420
aatca 425

<210> 18502
<211> 384
<212> DNA
<213> Glycine max

<400> 18502
tagctttgag ggaagaaacc tcaagaacac tttatgaagc ttggaagaag aagaagaaaa 60
tggattcctc tccctcccat gaagaactcg tgcacaacaa tggagaatga aggttctaag 120
tttgattttt ttggagaagt gaagagataa ggctttaagg cttgatccaa atgaaacttg 180
gttagtttaa tgttgataaa atcaaattga caacttgaat gatcattcaa tagccatggt 240
ggacatgcca aatgcagcca tgcataatga gtattttacc ttttgaattt ttaaccagaa 300
atgactaaag tatacttaaa gcaaaaatgg taaaaattgt ttttgctaaa actagtaa 360
cttatcctaa tcttctagat tagt 384

<210> 18503
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18503

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ggaatctttt ggagggccca agtgggctg gttactatct gcaccccttt ttactaaat 120
gcaccccccc ttctattttt ttggtaattc tttttcgtaa cgttacgaaa cttaagaat 180

ttcgtaacga tacttatttc ccttccgcaa ggctacgaat ccttacggat tatgtattta 240
ctcttttttta gctttccaag aagttacgga aactcacgga ttgcgcaaaa acacctcttt 300
tcgacttctg cctcattacg gaatttcacg gatcgtgcaa gcttgcttcc ttttgatctc 360
ggagacgtct cgggacatca tntattgtgc aaccaacgac gccca 404

<210> 18504
<211> 385
<212> DNA
<213> Glycine max

<400> 18504

tatcttacct tgaattataa ttgtatcctt tgcacccttt gtgagctaaa ttacattttc 60
aaaattgaac cctggacttg aatgaatatc tccagatacc ttgttttagat tctaggagag 120
cagatagttc aaggcaaatt acctcaaatt tggggggagtt gattgggatg taaagtaaaa 180
ggtaaagcat cagcacacac aacaaataag ttgtgtgtta aaaaaaatgt tgttgtaata 240
aggtcaaatg caaattaaag tgaaaggctg gtgagaaagt taattgtatt gaaagaaata 300
tctggatgaa tctaggattt gtgctctctt ataatctaag tctttgaatc ctagaaaaac 360
caattaatgt tgtagccgaa cctca 385

<210> 18505
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18505

nntcaataat aaggttgtag cccagatatg tttcataat ctcaaacgca ttcattgactg 60
gcactgggtg tgctgaagac cctgcttcat ccaccttata aacacgcttn ttgtgaatcc 120
cgtgccccaa attaggccca ctgacttcaa gggtaaaagg ataaatcttt tccaaacttt 180
ggttagccat ttttaagcca gaataaagtt taaaccaag tttttacctt aacaaaacta 240
aaattttgcc ctgaaaaatc taggaggctg ataattttgc atgaccatt cattctcaaa 300
gatctcatcc attgt 315

<210> 18506
<211> 376

<212> DNA
 <213> Glycine max

 <400> 18506

 ttgcttctcg cccaattttc tataaatagg gggagaagtg aagtgaaaaa ggggttcaacc 60
 gcttaggcac ttctctctct ttcgaatatg cttggaaaaa ttgggtccgt gaagaaaatc 120
 catgccgagg cgcttgcgaa acgtttccgt aacgtttccg tgaggaattt cgcgagggtt 180
 tcgaccgttc ttcgacgttc ttcattcgat cttcgatctt caacgggtaa gtacctcgaa 240
 ccaagctttt caactcatta tatgtaccgc aggtgggtcca cattgggtgaa cgcgatatcat 300
 tattctcggt tcatttactt tttatacacc cttttgacgt gcttgagcca tgggtatttaa 360
 gtcatttggt gcttaa 376

<210> 18507
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 18507

 tgttggatga tgggacaccc atcatatgtg gttctttgtg gcgagcgggc gatggagcgg 60
 ataaactctc ccacatcctc aagtctaaca tgaaccaccc ataccagtt gcacaccttc 120
 aactgagctc acgtactcct acataatgct taccctcatt cctgccaaaca gggggacccc 180
 atgaaccctt acaagctgcc ttagtatccc ggcgatccga tctccactat catgagggttc 240
 cctataccaa gagaataggg cagaggcaga aaactctgcc caaaacacat tgacatctta 300
 tagcttatct tactcaaatg cgccaatcac attctctct 339

<210> 18508
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18508

 agctnnttgg agtagaaaca tgggaccaac tcattttatt tcaaaaagga agtcgtatct 60
 agtcaagggtc tgagagacca tacaagtttn ctaacgattt ctaattatgt gggccattaa 120
 gtctatcata tgctgacaat agccgagaag tccgtggatc tccttgnggg cggagtaggt 180

gtccgccatt gctttggcct tggctagcaa tcggcgaagt tcttgactct tgttcaaagt 240
aagagcaaat cggtcctgcc acattgttgc ctcttgggtgc aatgaatcaa ttaccctttc 300
ccttgcttcc ctttctgctg atatcttggc gtactcatcc tctagccttt gctcgtgagt 360
cgccgct 367

<210> 18509
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18509

tcattaagag gcttctagca tactccagac atcttctcat agatcccaac agtcagatca 60
tggacaagtg tcttgtgaag tttaagacca aatttcgaga agatccaacg gttaataaag 120
gctgagcatc gtttttaccg aggagctgc atgtagcttt ctctagaagc ttcattaaga 180
ggcttcctct agaagcttcc tcgtggcttc tttgagaagc tttctcaaca ggattctttg 240
agaagctaga tccttatcta tccacacccc tctattaact aaattaactt ccttaaaaat 300
aattacggat gaaaataacg caacaaataa tcaaacatca aacataatta ctaataatat 360
atagatatat atatcanggt gttacaagga actaacagat ttgagggtcaa atcct 415

<210> 18510
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18510

agcttacaaa aatttgtaaa ggggtgtcaat gagatatttg gacaagagta cttgagaaga 60
cccaacaaca atgacatcaa tcgcctacta caaattggag atggacaagg gtttccaggt 120
atgttaggtt ttattgattg catacattgg gagtggaaaa attttctgtc agaccctaata 180
tttgtccaag gacaatcatt catggatatt ttgattctcg ctagccaaat tgagctgttt 240
gacaccagtt accgcgcaag acgaaagatc attcgatgtt ttggtcaagg gtgtgaaaga 300
tactaaaagg gaggggcaaa aggggtctttt canggttatt tctagaccct ggctcgccca 360
ggctagcctt tggctct 377

<210> 18511
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 18511

tgctcaagac aaaacctaac attccaatcc actcaattca tactatttct cattctaatac 60
 aatcacaaca cttcatttca tacgaaatca aaccactgaa tcattttcaa tcaattcatt 120
 gttcaatcat gcttttgtac aagctactac tacaacaaaa ataactaaaa tttaagactg 180
 aaattttaat aactgaaaca taaacataaa ataaactaaa atagaataat aataaactgt 240
 tcaaaatgca agacaagaag ataaagatcc tgtcaatcct cctgtgggtg atcctctgca 300
 tgctcattaa gatccaacac cggagcagct ggtggatcct gaacaatagg ctgctctggc 360
 tccaatgcta gtgcagatgg atgagaatca tcaataactg gagctggaga gacaggaatt 420
 g 421

<210> 18512
 <211> 537
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18512

gcgccaccac actcacttcc actacatcgt taatgagatg gctgattaaa taaatacagt 60
 cgaaaaanna acagagagan atgatgcttc gaaaccacga cgnacaaaan aaccgnggcc 120
 cgggattcng cagagtcaaa atggacgcat gtatcttgtg gtggaaagaa ggcgaccagg 180
 acaagctacc ttatatttca ttcaatggac atccaatgta cattaatgac gaggaagacc 240
 agaccgcgaa gacatcatac taactaatca cagagcgatc gttaaggatg aaaatattgt 300
 cactaattaa cgacacagag cgcgaaagtc atgacgggga gggaaaccgg gaccccatag 360
 gtactagcaa tgccaggact gaaggaaaga attgaccctc cccgaaaata tgaagacatt 420
 gtagcgaaaa taatccttac aaaagccgta taaaacgaat ggaaaaccag cgagccacac 480
 tcaaaaagta tggggcgtga tgcaagcaca agaagagaag gaccccaaac aaccacc 537

<210> 18513
 <211> 388

<212> DNA
<213> Glycine max

<400> 18513

agcttggttca ttcctttctg caatgtagtt ttatgcaagt taatttaaac aaatgatgat 60
ggagaagggtt aacacctttg taataaagaa gtagtttgaa gtcctaaga atctatccaa 120
aatatactca aggagcaaaa gatgttaaaa caggaaattt aaagaggaat gtaatttcaa 180
gttttgcaat taacatggta aatgatattt agttttctgt tattccttga ttcttctata 240
cataatgcac accagctgca aattcaattg cagtcacata tcagaaacat tgtcttggat 300
caatctgctt caacacgtta taccgcatt ataatatctt ttaagctagc tagcttataa 360
tgataaattt taagggtctt cacatttt 388

<210> 18514
<211> 425
<212> DNA
<213> Glycine max

<400> 18514

tggacttaat attctgtagt tgggtggttga tccatcacac tacggattag aaggcaacgg 60
gaattatggc accgaaccag gaatcttaaa cataaaaata gaatccaatt actagttaaa 120
ttagtagaaa acgacaagaa atcttctaca ctatattgca atataaaatt caactatcct 180
atgaagtatg aaccttccgt tttctattcg ttaagctgta tgtttatgaa tatgattaga 240
agtaggaacg atgtttacct accacaaaac aataacatca attgaataga aataccctt 300
ttttgctccc taccctccta tgatattgat aactaattga attgaatttg attttaatat 360
atcaacagtt ttttttttac aagtataaat tattttatag gaataagaat ataagatgaa 420
ttaat 425

<210> 18515
<211> 384
<212> DNA
<213> Glycine max

<400> 18515

agcttataga agaataagaa aggggcaaac agaagactca ccattctgtc actgaaaaca 60
ctcctctcca tcaaacgaag aggcttgatt ccagcagatg actctctttc ctgcatgacc 120

cgtgtgacaa acacatagtt ctgaaagggtg taggcataacc gttgcggctc ggcataaaaa 180
 gcatccaaaa tgttaaagtg atcagggtcca acatcctgcc acttgctaata gggttcatga 240
 accacctcaa caagatcacg caactcgatc gtttcattcg ctattctctg gaggaaggta 300
 gtcttgccaa cgctaagtgt accctcaaca cagaatgtta agcgcttctt ctgaacagag 360
 gaagaggaat tgtcttccaa ctcc 384

<210> 18516
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18516

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 tgaaccagtt tatttagtat tcaatgaaat gattgtttta cgttaatat acatcgtttt 120
 tactagttaa tttcctttta ctcatatttc ctctaaaaaa aaaaaaactt ttactcatat 180
 ttgaggtcat atatatgtaa atcgatacca aaataaaaagc gaaggtagaa tgacgataag 240
 agggcccagt aaatttttta atgtcaattg ctacaaatag atcgacttta ttaaaataag 300
 gttttgggta attatgatta attgattatc agttcatttg gttgttttta ttaataatat 360
 tattattgggt ctattaagca atatgttgggt atgagaaaaa atttcataat tttaaataata 420
 tgt 423

<210> 18517
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 18517

gaattataca ataacacttt tgccecaacc atgaagtcct tottaattat catgctatca 60
 tggaacttct tgggtcttttc tttgtagaac ttggcattct catacgcttc taggcggatc 120
 tcatctaact cactcagttg caactttctt tcatcaccag cttgatccat agagaagttg 180
 cagggtcttca ctacccaata tgctttgtgc tcaatctcaa ctggaagatg acatgccttt 240
 ccaaaggcaa cccgataagg agacattcct atgggtgctt tgtaggtagt cctatgtgcc 300

caaagagcat catcaagcct ggtactccaa tctttcctgc ttggctgcac aatcttctct 360
 aaaattctct tgatctccct g 381

<210> 18518
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 18518

ttcataaaaa ataaaagggt catagaccaa aagaaaaacc ctttataccta attgttaact 60
 ccaatcaaga cttaaaatct ataagttcca acacatggta atcattttat aaagttatat 120
 aaatataaat ttgatacaag aagttttttt ttaagaaaac aattcacgcc acgagatcca 180
 cgataacaat agtcacacagg gaccatgata gctgtcacgt acctacatgc aatgatagca 240
 acattcaata attgcctaca aagataaaga tgaataagaa aatttcataa caaacgtgt 300
 cccaccaccc aaacaaataa aaaaaagaaa aagaaaagag cccctttcaa ctatgaagag 360
 cataatgaac tgatagtggc cattggcttt tatttggtat atgacacata ttaccttcat 420
 caaccca 427

<210> 18519
 <211> 222
 <212> DNA
 <213> Glycine max

<400> 18519

agctttgggg ctgaggacct atataacagc actagggttt tagttttgga gagtttttgg 60
 agagaagaat aattctaggg ttttagaatt ccagacactg ttcacgtaga ataaaatttg 120
 ttttccgcaa tctcatttct acttcaatct acaatttcgt tttctattga ttaatggaag 180
 gctaaacctc tctagttgtt gtctcttgag gatcaacctc aa 222

<210> 18520
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 18520

ttggctgcgc agcagctctg atttcgtgag tatttataga agatgacgca ttgtaatcga 60

ttacaggtat tggtaatcga ttacaggccc aataagcctt ctggtaatcg attacaggat 120
gttgtaatcg attacaggct gcctgttcat gtgtaatcga ttacactgga tggtaatcga 180
ttaccagagc ctatcctagg ctagtttcta agagaatata tatatttatg ctcaaataca 240
tcctatatga ctaatttcta ctactaatac actaaattca atcattcaat tactatatac 300
acaagaaatc ataaattcta tcataataac acgaattcac acatgatcta actatataat 360
ctacaatcaa aaggtaaaag taaatcaacc aatcaatccc tattgttcta aatctctta 420
at 422

<210> 18521
<211> 383
<212> DNA
<213> Glycine max

<400> 18521

tttcttgtgg tggaaaaaag ggtgaacaat tttcaactat agatattttt ttattagact 60
ccattgacat ttgtatgagg aaatctgatg tgatgaaatc tccttaatct cctatattta 120
tgttatgatg aaatcttgtc tctaatttat gacacagggtg tgacgggtcat gcataaattg 180
aaaccttggt tctttatggt ttttctatgt ctggattgct tgaaagtatt gttgagtatt 240
gttaagcact gattactttt tagtgaaaat tttccttaaa attaccttca agtaagactg 300
tgattaccag tgaccacaca ctcaaactgt agtctgttcc tgattggata gcaattgtgt 360
gaagtggata tgttattcct gat 383

<210> 18522
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18522

ttctgtgtct nttttaaata aagatatggt ggtatatacc ccaactagtg gttctatggt 60
aacttctaata gtgtgtttga attgtcctgt ggaaatttct ggcagaacat ttgtgattga 120
tctaatttgt ttgcccttta gccaaattga tgttattcta ggtatgaact ggttatcttc 180
caaccatgtc ttgttaaact gttttaataa aactgtgggtg tttgatgggt ctggagtaag 240
taaggatatg atatttatct ctaccaacca agttgtgaca tctttaaaag aagattctca 300

aggtgtacatg atcttgtcta acctagaaat aaagaccaag gtttccatgt gtgaccttcc 360
 tgttgtaga gagttctctg aagtgttccc tgaggatata tctgggtct 408

<210> 18523
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 18523

agcttatggc gtttttagtt aaaatatttt tatcatttct tatatcaata tttgtaaacy 60
 agatacaaag tgaaaataat gtgatatttt agtaattgaa aaaaaatata taaaaaatat 120
 ttatatgaac cacagtacca agcacattta agtttctgca tccaggtaat gatttctctgt 180
 ggccatcatt cataaattca aattactttg ccaactctac aatcacttgc ttcattgaaag 240
 gacagaaaga ttgcatccat aattctgcat taagctcatc tatatgctct gccgggttcc 300
 aaatataatg tgcaatgaag aggatgtgtt aaaattttat tgcaggggaa aaaatagctc 360
 ctctaaagta aatttttct 379

<210> 18524
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18524

taaactntnt ttaccatgta ttacagggga aaattgcttt gagttcagca agtcatcgta 60
 aaattgatga cgatgatgat aacttagacg agtttcttga ggggatgttt tcgcatcct 120
 ggctaatttg attgtggtaa caaaaggatt catcaaaaga gtttaagaaaa actcctattg 180
 agttcttgta ttagagatac tctaaaatta aactaagcta aaataaacat gtagtattta 240
 acttaaactt atcatatttt ttatatataa ttctcacatt aagtaatgtc acatgatatc 300
 ttttttacat ttacaacaac aagttgatat gagatctatc tagaacaagt tgcagaattt 360
 caagagaaca ttctcaaaca tatatattcg atatgagatc ttactgacaa gaataaaa 418

<210> 18525
 <211> 384
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18525

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aaaagcataa ctacattgta atgaaaaatg aatgaataat aataagagag atgaggtgaa 120
caagttttaa acactttgtg attatgattt tttttataat gtagaagttt ttaaagtctc 180
catgattgta attgtagtag cattgggtac atttatatgt aatttctctc aatatcaagg 240
tttgtgacaa aactgtgaca acaatttaaa gccctaatat aaaggattac cttaaagtat 300
ttaggcaaaa atgattcatg atttacaag aaacaactaa atttattttt canactacca 360
aactaagcaa taacaactac attt 384

<210> 18526

<211> 403

<212> DNA

<213> Glycine max

<400> 18526

tctggttata taggccttct tcaacaagtg tttattgtct ttaaattggat agatttcttc 60
acttgagctc gcgtttgaag attgtgatcg ttggaacatt taatgtttgc attcaatgca 120
catatgataa gtgcaaatt taagttattt ttgggattaa attgttagca cttatccttt 180
aattgtaata gttttcttat aaactaccct taaaactagt tgtaactata tattgtacat 240
tcactaatat tattgcttaa atatgaaaga ttcattccata attttgtaag ttttgatggg 300
tgtttggtat atctagaaac atagctaaaa ggaagggtga aatggtcatt tcacgaagat 360
ttttgatcct aaattcaccc aggctatcaa ttacatcact tat 403

<210> 18527

<211> 241

<212> DNA

<213> Glycine max

<400> 18527

tttctatgag tcaataactaa cgataataac ttactactcg gatgtccgac agagactcgt 60
agtatataga cacgctccaa attgaatgga gaagctgtca tcctattaca acaatagtaa 120
cgggttaactc ggatgacaga atcttagacg taatatttcg ggacgcttgg aatgaaagt 180

agagcatgtg agcactcccc aacgacactc taatgttaac tccgacgtgg gaatgactcg 240
c 241

<210> 18528
<211> 417
<212> DNA
<213> Glycine max

<400> 18528

taaacattca attgcgagag tctcggtata ttacgggtact caatcagaca tccgagtaaa 60
aagttattgt cgtatgaatt ggcttacagc atagacattc aactttgagc ctctcgatat 120
attacgggac tcaatcagac atccgagtaa aaagttattg tgcgttgaat ttgctcagag 180
gttcaaaatt caatttcgag cgtatcgata tatttcggga ctcaatcaga catccgagta 240
aaaagttatt gccttttgag ttggctcaga ggttcaacat tcaatttcga gcgtcccgat 300
atttacgcca ctgaatctga catcccagga aaaagctatt gtcgctagaa tatgctctga 360
gcttcaacat tatattacga gcgtctccat ttttttcggg actcagtctg acatccc 417

<210> 18529
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18529

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attaattttt tttgctttac cttctcttcc attgttggtt cttcattttt ttctccatgt 120
atctcctcac atgtcttggtg ctaaagtgtt ttaacatcat tcttttagagt ttccaccgat 180
taaacttgct atataagcta gatttgattt tctatgggtc aaatttcttg tttttgttct 240
tgaaccatga attgtgttga gtttaggttc ctttgagttt tgtcttggtt tttttgtgg 300
ctgaaacctt aaccataaaa ttcatacaaa aatattaaag tagaataaaa gctcanaaat 360
ctagagtgac ttgttcacct attg 384

<210> 18530
<211> 418
<212> DNA

<213> Glycine max

<400> 18530

tcgagcacac tccagataac gtctcaaaga tccaaacggg cagatcatgg acaattgtct 60
tgtgaagttg aagacctaat ttcgagaaaa tccaacgggt aacgaaggct atgtagcgtt 120
tttaccaagg cagcttcatg tagctttctc tagaagcttc attaagaggc ttcctccaga 180
agcttcctcg tgggttcttt gagaagcttt ttcaagaggc ttctttgaga agctagatcc 240
ttatctatcc acacctctct attactaaa ttaacctcct taaaaataat tacagataaa 300
aataacacaa caaataatca aacatcaaac ataattacta ataatatata tatatatata 360
tatcgggggtg ttacaaggga ggcaaagaat tgggaagtac aggcggcccc cattttgt 418

<210> 18531

<211> 378

<212> DNA

<213> Glycine max

<400> 18531

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ttaaatcata caacagaaga gaatcctgta tagactagaa gcaactaaca agaatgatag 120
acaagaccag agcactaaga agctgcaata agcagtcctt caaaggccac ccagggtccc 180
acagccaatg ccaaattcta tgatatgcc cctcttctct gtacgcactc atatatagca 240
aatagcggtc ttttccccca tgatggccaa atccactgac acatttatga gatgccacca 300
gtccttgctc tatatacttg cctctcctag tcctatccta tgaaggcttt ccacctcctt 360
gctcctttca ttgattag 378

<210> 18532

<211> 382

<212> DNA

<213> Glycine max

<400> 18532

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atthaggaat gattacatat cttgtattac caaatgatag aattttttac gaacatccaa 120
taattgcatt gactaataaa taaatattta actataacta attattatat ataaaagaaa 180

taggatgttt agatgtacat tgtattatat ctattttatc ttataacta tttcataac 240
 ttattatttg atttatatta ttacctgata taatcacccg ctaactaatt attatttttc 300
 attgaataaa taaacatgaa taaacagtta cacgtgcatg tttattccta aaatgttata 360
 ataatatgtc attacctcaa ca 382

<210> 18533
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 18533

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 tctaggcttg agaagtcaaa ttgagaatgg gacaaatttg aagcaaactc tcacctcaca 120
 caagtctata acatcaattt aaacttggtt aaactggatt tacgcttaaa atctcaccga 180
 atcaaaattt gactcttcaa caccctaaatt taccctagaa atggctcttt gttcactttg 240
 gtcatttggt tttctctcta gcacagccta acctttctca taagtcctaa atggcatttc 300
 aagctaagat taactcactc taacctctaa atactaccaa ttccagattt ggccttcag 360
 ccctcaaaaa ttactatt 379

<210> 18534
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 18534

tgtagaatgg ctagacatga tacatgtcat ggtttggttt ggttcaagga taaaaaggga 60
 tgccccacat tatttccatg acacaaaatg caaaaaaatg atgatttgga aactttatgc 120
 aaaactggtc atgcatgcac ctatgcggac actcaagtgt caaattttta tggatcatgtg 180
 atgctagggc tcaggattca tttcctctat tttaatcaac ccaatgtttc caaatatgt 240
 tcttttatca atttggtgat tcatccgagt ccatttcggg cgtccgggga aatttcacag 300
 cattcaccct tcagggtgtag acacattttc caaaaattgg ttatgatcaa tgaacttttt 360
 tttggaaatc gtctcttttc aaaagcatgt cgttttttag ctagacaact tattttc 417

<210> 18535

<211> 365
 <212> DNA
 <213> Glycine max

<400> 18535

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agcttatgca atcctacccc ccaaggggtat tggatagaag actccaagag gattgggcta 60
gagctactaa agaaggccct agggttctcg tgaaccttag ggtagatttt tgagcccatg 120
gggtcaagggtt ggatccactc ttctttgtaa atattagaat aggttttttc ttcttttggg 180
ccttgtatfff tggccattct agtagtatag gggttttagcc ttgtatttta aggcattattg 240
agtagtcttt gtagtaggga ctttttttta ttttcatgta tttttggaat gggggtgaac 300
ttagctatta taggggggtgt gtagctaagc tctagctttt catctcaagg aggtgagctt 360
agcta 365
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<210> 18536
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 18536

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gggccccaac tgggaagggtt tttcgaaccc gacaagtgtc ccggatcgcg caagtagtat 60
aaaatggtaa gagcagagta tcgaattctc ggggaactag tgttacttgg taaagctata 120
gtcagtgaat aggtgtctag tatgaaaaga tatgctgga ctatgaacag gtatgtaaac 180
taactattaa aaggaaaatc acgtgagtaa tgggtcataa agacaagtag acaacatgtt 240
ggctctccta ttaggtgect gatgttataa ggatattctc tacttaataa agctcctgtg 300
ttctatggtg tctcctgaaa tgctaaaccc tgattcctca tgatagtcta gcctaactct 360
aatcaagcat catccttaga ttcctctttt tggactaaac tcgacccaaa ccgtattaag 420
acaaac 426
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<210> 18537
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18537

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agctttgtcg atttagttnt tgccggcgaa aggatcgaag tgggtctgga aataggaaaa 60
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tttgattatc ctgctttaat gaatgggaag cctgcggaaa atggagagaa tgagaaggag 120
ggaagaaccc atgttgtgac tgttgttcct ttatggccaa atttcccacc agctcaataa 180
tatcaatact cagccaatat caatccttct aattaccac caacctatta accaagaacg 240
cttaatcatc cacaaaggcc acccctaaat cagccacaaa acccgcttgc cgcacatcca 300
ataccaaaca ccacccttaa cacacaccat aacaccaacc atggaaggaa ttttctagca 360
naaaagcctg tagaattcac ccc 383

<210> 18538
<211> 416
<212> DNA
<213> Glycine max

<400> 18538

tgtgactctt ggaaatttct ttaaaactag tcaactaaat agttgtgact tttgaaaaaa 60
tcttcagaaa caagtcactt gaagaattgt gacttttgga aatttatatt tcgaaatcaa 120
tcactagtag tcgattacca ttaaggtgta atcgattaca tatcaacaga tgtgactctt 180
cattttaaat tttgaaaatt aaaatgtcta aaagctctgg taatcgatta catttgttaa 240
tcgattacac aagttgaaaa tgtttaaaca caagttgtac ctcttgaaat atgaaatctt 300
aacgttttaa aacattggta atcgattact atcttctggt aatcgattac cagagagaaa 360
aactctttgg taatgatttt gtaaaaactt cttgtgctac tcaatgtttt gaaaaa 416

<210> 18539
<211> 371
<212> DNA
<213> Glycine max

<400> 18539

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ttgaggagtg cctgttgccg gacagatata tttgaacatg aaacttatat ctgatcatcc 120
gccttggaat tcttccaatt aaccttatta taatttatgc cttggctgat gctatatata 180
tatatatact atatacttat tacacaatat acgtgtatgt gtatacgatt cataaagaat 240
aaatagtctc atgtttaatg attatatatt gtggagtgat aaaccattca ctagttagag 300
agacaacggg actgctactt ttattatgta tctgataatg actaagacac actgttgact 360

ataagtttgt t

371

<210> 18540

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18540

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ctccaataac aagtcaatga ggcacgggtc cattgggggt gtccaatatg ttctagtacg 120

atcagtgcca cttgggttgc gacttccttt tgtttcacct tcagaaagat atacgaccac 180

agaggtaact actcagttct ccaaagatct tatggcctaa aatatgaatt ataacatatt 240

caagaaatga caagtgaac atggggatca caattacaat ctacccatgc taattatgta 300

agtcattcaa aaatttacac atctcataat tagattcata aatatacagt tctaagaagt 360

taaaaaatta taatatctag ataacaaaca tgccttaggt atttccatgc tatanacgcg 420

tgaagtgact aagtgacaat 440

<210> 18541

<211> 382

<212> DNA

<213> Glycine max

<400> 18541

agcttgatat gaggaagtgt tgaaggggtga aacttcctgc ttttattggt gaccacagag 60

tggtagctgg agatatgtcg cgggggtcaa gagaccttgg ggacgtcagg tggggtgcta 120

ttgccccaaa ccaagcttga ccaatcccga cccaacccgg gcatagtcgg tcagtgaaga 180

catgtgacgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240

cacagagcaa ggaggcttgt ggtggctggc cagctgtgaa ttatgtgtaa tatgtggatt 300

gaggcctctg gtaatcgatt accatgggtg ggtaatcgat tacaaggctt aaaattgaag 360

acagggggct aagatgggtct ct 382

<210> 18542

<211> 418

<212> DNA

<213> Glycine max

<400> 18542

tatgcgcata tttccctacg aacgttcact tgcacaagac atcctattaa ctaagaaaaa 60
tgcaccata tacaatcaag gtagcttcat tacctagatt atttacatgt acttccaagg 120
tgtatttggt atttacatca cacacgcctc ctgggctaaa tttacatata tgcatactca 180
aagcatttcg gggtagcaaa aattgcacat gcgctcatct tgggtatttct aatacctata 240
catatacaaa cttcatgatg aatcttgact acctacgcaa taagggtgcta catttcatgc 300
tctttttttt tttttttttt ttgaggggaa tattaacctat gtccctccc ttctcatgga 360
ttagcatctt gcctaacttg aacttactta ggtagaatt atgcgttgat tacttatt 418

<210> 18543

<211> 383

<212> DNA

<213> Glycine max

<400> 18543

agcttgctgc atggcatgat ggaacttgca gttatccttt cacctttggt attcacggaa 60
atgtatgtct tcctagggtt ttctatctgt tcaggaaatca tatacaaata ccattattac 120
tagcattaat catatattct ctttcgttat ttttctcttt tgtagtactt ctcattatgc 180
taggtggagg agagcgagga cttgaattat ttattataat tttgccactc attattcatt 240
cataatatta tccttcact gttatcttca acgcatttat ttgaattttg tgggggaact 300
cgagtaagtt gaggagttag acaaaatcaa agtctataga ctatagcaaa cgtaaattc 360
ctagttctga tgtttgacaa aat 383

<210> 18544

<211> 423

<212> DNA

<213> Glycine max

<400> 18544

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gagccagacc aaggaaaaat acatcaaaga aaataaataa tctagtatag ctaattttat 120
aatcagataa agcatctgag acctgctgcc atgtggtatc aacaggaggc tgccgccgag 180

catcgccagc atcaaaatcc agtacaccat aatccctcaa ccgaatctac acagcaataa 240
 ctaaaatcag aagtcttttt gaggattaaa tgcattggcat tatctataag acacattttt 300
 caaattgaga caaaccggaa ggaaggcacg gattctttgc aattcccaa caccaccacc 360
 aagagcagcc taccattaga taaaaaagca agcagaaatt aagtgttgat aacaaatata 420
 aat 423

<210> 18545
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 18545
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 agcctaaggg agcttcggca gctaccgtac ctctaggtgg accacaacct catcaaagga 120
 acgctgtctt tggcgctggt caactgctct atgcttttgc atctgagcat ggagggaacg 180
 ttcttaccgg cgtccgtcca ttggcgatta cggcacttcc atagctttaa gtgatgtcac 240
 tctctagaac aatctcacta gctccattct gggttccgct ttctacaaca gtaatatcca 300
 cgtgtcgacg ctagatgttt ccaacagtgc actgtctaac gacatatatt actcctcaat 360
 ccgattgcta tcatcaaat 379

<210> 18546
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 18546
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 ctagtctctc caattaagga gggatcccaa caaatctccc cctcccgact taattgggag 120
 gtagtagcaa accggcacct tgacagcaat cttcaaatgt ctttgtcggg agtactttgg 180
 tcatcatgtc tgatcagttc tcgttttgtg gaaccttgtc aagatgtact ttcttttctt 240
 cgaggacatc tcggatccaa tgatacctta tgccaatgtg ctttgtatgg gaatgaaatg 300
 ttgagttcct tgccaagtaa attgaacttt aattatcgca cttcaacaca tacctatctt 360
 gatctattcc cagctcctgc aacatgttct tcatccacaa catctccttg caagcttcag 420

tgga 424

<210> 18547
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18547

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cctangctct attctctctt tcgaaaaagc ttcagaagct tgctttctcg aagaaaatac 120
aataccatgc gctgacatag ccactccgtt accatggcga gactgattac atgccagatc 180
tctaccgtgg atctgactga ttaattgctt tttcagctgg aactgttag atacatcatt 240
ccctgctttc actatcttac tatgttcag cagtggatca ccacatgttc catgagatgt 300
aagattcgta aacatatact gatcatactc tctttatacg agcccaaaca tttgatctac 360
atgac 365

<210> 18548
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18548

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tcgtggacga atgactgaaa tagagctcct tactgctaac atgtctattc tccacgggac 120
gaaccgagtc taccatatac tatgtgcgcc tttgtaacac ctacacgttg aagagggtat 180
attgatgatg caattgttcc tactacacca atagtgtac agagctgact gtgtgaagat 240
aagctaaagg ccgaagcaga tctatcaata tctgaaattc aacaaaccaa atccttgtgt 300
gcctcctaag aacacttatt taatgtctta gtttgaacct gataggagaa taacgatctc 360
cttcttcttg aagcttttta attttcccag tgtcggctga aaat 405

<210> 18549
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18549

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aacaagtgtt gcaacgctgt cagtttactg aacaaaggaa acttcaggaa attgagtga 120
tcttagcttt gctaagttag tgagtttcat tgtattcgag cttattatgt aaacactcct 180
tgagtgatta agaatacatt ctctatcaaa catatattat ttttgaaagc taggagtgcc 240
ttagtgacaa agaatacttg ggtcttaatc tcaatggaag attaaatgta gtgtcaagag 300
tggcctagag agtactctnt ataatcaaaa gtggcataga taatacttgg ttgtaatcaa 360
agaaattcct agtggaaacc tt 382

<210> 18550
<211> 416
<212> DNA
<213> Glycine max

<400> 18550

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caaaagcttt tgagtctcta gcttggattt tcagcttggtt acattctcct attaacacat 120
gatcttgctc ttatgccttc ttcaaggcaa catccttctc ctctattggc tttaatgggt 180
tgatattacc tacggactgc ctcaattcta gaaaacattt tatatcctag ggtaacatgg 240
gtgagatact ctttcacccc taccaagatt gatatggtag aatctaagct ggtatgattg 300
tttttttagaa caatatccca attctcaaac aaaataagac gatcaatctc ctactcaaa 360
gacatcaata tgaggggacc gccaaacatc ctggtaggaa ccaagctaga attgga 416

<210> 18551
<211> 385
<212> DNA
<213> Glycine max

<400> 18551

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caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaatg 120
attataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180
tttcaaaact atcatgacat gtagagaaga atcatggatt tcaagtcaca aaatgtcaag 240

aactttttatt gtcaaaacaa ttacccattht cttgaacata tcctataatt caaagaaaaa 300
catgctaagt cgtacgtgca catgaaattg acccaaaata ttaaactgaa aatacgacga 360
cactaacaac attaacaaat taaca 385

<210> 18552
<211> 423
<212> DNA
<213> Glycine max

<400> 18552

tgtaggatta tggggtatcc atcacatgtg gtactatgtg gcgggtcgggc gatgggtgcac 60
aacaagtttt ccacatccac aatgcgcgca taaaccaccc atccccctgtt gcccacctcc 120
aactgagctc acgtactccc acgtagccca taccctcgtt tctctcaata ccgggtcccc 180
atcaatcctc ccaagcttcc acaacatcca agcaaaacaa catttaaaca gcacaagcta 240
tcacagccaa gcaaaacagg gcaaaggcag aaaaactctg ctcaacacac taaccaaaat 300
catagctttt ctcaactaaa gacccagta acaattcctt cgatccaatt cgttaaccgt 360
tggatcgact ccaaaatttt actggaagtc tatagtgcac aagcctacat ttggaccatt 420
ggg 423

<210> 18553
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18553

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tttgattatg ctactttgat gaataggaag cctgggggaaa atggagagaa taagaaggag 120
ggagaaaccc atgttgtgaa tgcgttccct acatggccaa atttccact agctcaataa 180
tatcaattct cgaccaatat cagtcattct cattaccac caccctacca gctaagaaca 240
cccaatcatc cataaaggcc acccctaaat gggccacaaa acccgcttgc tgcacatccg 300
aggccaaaca ccacccttaa tacaatcaa aacaccaatt aggaaggaa ttntccaga 360
cagaggcttg tagaattcac c 381

<210> 18554
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 18554

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 gaatttgctt gaaaaccttg ttgttgctct taaagtgcac tttgcagaag atccacaaat 120
 taatcaagtc ttagaagcta tagatcaaga ggtatcaata tataatccaa cttattcaaa 180
 gatttaacta tgatatgata ctttaciaag aaaaaacatt gttctaattt aggtacttac 240
 aaatggttct actagtaaaa atcatcaaac tacaaacgat ctgaactaga ggtgagttga 300
 aatttaataa ttaatatatt gacaatatca tttttgttag catatggtat agcttgtaat 360
 gtatccgtac tatctatgta tataataagt tgacatttaa taattaacat gttgaaaatt 420
 t 421

<210> 18555
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 18555

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 atcaaaagtt atggttggtt atattatcca tgtgcttcaa tgttcaattt ttagcatctt 120
 gatataattat gcagcttaat cgggcatctg agtgaaaagt tatgtcatac gagttagccg 180
 agaacttcgt tgttcgattt cgagcatctc gacatattat ttgcctgaat cggacatcag 240
 agtcaaaagt tatggcagtt taaactttcc atgtgcttcc atgattaatt ttgagcatct 300
 cgatatatta tgcacctgaa tcggactact gagcgaatag ttatgccata tgagatagct 360
 g 361

<210> 18556
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18556

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 actccaagta ggcctacgga tcattctttc ctttaaattgg aggaatgatg agtttaatac 120
 catcaattcg gttttgtcta ggaacacccat cattccctct tctcctcctt tcttcttcat 180
 tatgatcact attctccatt tgatccaacc tctcatggag cgcattcatct cgttggttca 240
 ttaacctctc caaatgttgc atcaaagggt gcatttgga ttgcgaaagc cccactccat 300
 cattaggatt agtacctgtc atctcaaaca aacaaattaa acgtaacaag acaattatag 360
 ctggtgtttg aatacctcac ccactcaagt gtatcacaca attatggctt ctctct 416

<210> 18557
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 18557

agcttgattt cgaaaatctg caaaattatg cagaaaagct gtcaaattgt gcagcaaatc 60
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 gtagtgatc tcgcgttata gacattattt agcagatccc aacgggtcaaa acttagattt 180
 acgtattaga aaccctcaat taaaatttca aggcgatcca atgggttaacg aatcggaaca 240
 aagaggattt tactgaggta tgtgggtagg aaaaactctg tggaatttga atgaatcttg 300
 tgtaaagatt tctgcctcca ctttgttttt aaggtagttt catgacaaat ggaattgtat 360
 tgtttgata tt 372

<210> 18558
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 18558

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 taatcatgaa ttggccaagt cattagttgg acatccatat gtggggcaat tgactaaagc 120
 tgaaaataca cttattgctg atatgacgaa gtccatggtg aagccaagaa acattctgct 180
 aactctgaag gaacacaatg ccaatagctg tacgaccatt aaacagatat acaatgcaag 240
 aagtgaattc cgttcttcca taagaggaaa cgatcttgaa atgcaacatc tgatgaagct 300

tcttgaacgt gatcagtata ttcattggca caaaataaag gatgaagacg tggttcgtga 360
tatcttttgg tgtcaccctg attcagtga gttagtcaac acatgtaatt tgggtgtt 417

<210> 18559
<211> 361
<212> DNA
<213> Glycine max

<400> 18559

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tggaataatt ctgaaaactt gctgtaatcc ggagaccact tgatcttcca taatactcat 120
tttggaacag ttttataaga ctctggatta ctttttcggc ttttccagaa agaaagattg 180
aacaaaaatg ttttagaatt ttaattccga aatgctccac cttccccacg gtaaatacat 240
catttagcca ttttctttta taaaaccaat acttgaaagt tctttctagt ttcataataa 300
cttcacgca gaattatttt tcctcttatt acacctcatt ctttctagtg tcatagatat 360
a 361

<210> 18560
<211> 409
<212> DNA
<213> Glycine max

<400> 18560

gattattgaa aaacatctct ttagttactt tcccctcatg gtgtcaaatt tatcaggtta 60
ggaagccaca aaagaatgta aaactcccaa taatagaaag tggtgtagga actcttgatt 120
tgaatatcat atatttgagg cgaggggaga ctttctctgg ggtatgctat atatatcaca 180
ttgtttttct tcctctttga tggtttttaat gctcttctaa ctaacaattt ctggacgaac 240
tcgtggattc tcctcctttt tgtaagatcg accgaacagc atcaagcaga tatgggtata 300
ttgcacactt gtgtgttgcc aaatcacttt atcgcaaggg tggtgcaagc aaaatgttgt 360
atcttgctgt ggagtctgcc aaatctactg gtaatgtgag agaacattt 409

<210> 18561
<211> 177
<212> DNA
<213> Glycine max

<400> 18561

agcttgatag taggacttgt atagaggcta gaccttctac ctttaatgat gacctttcat 60
ggggacctgt caacatggag atgcagtcaa aagcacatga gaacatgaga tgggagactc 120
tatccccctaa cgaatattcg caagtagaaa gagctctccc acctagaatt gccttg 177

<210> 18562

<211> 277

<212> DNA

<213> Glycine max

<400> 18562

ctgactattg actaatactt ctgtttgcaa ggtcacatac tagctctttc tgcgactaac 60
atacggactt gctcaatctc atgacaagaa agcaccacat ccatgacaga cagtgcattc 120
cctcccaaat gaattcataa caccaattgt cacaccacaga tcaaaatgtg gcactaccta 180
accatccagg tcgagtataa ctgttccatc tgcgtcaciaa cgtgcatact aattatccac 240
gggcagaaat atcacctgtc tataaacatt atccgca 277

<210> 18563

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18563

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atacaatgat aaaactcaaa atcgaatctc tcaggatgta caaggtgttt tgagagatga 120
gttcgaaggt tgaacaaaat ctacaatcaa cattaatgct taaaaatgct ttgtccacac 180
gtaggtttac tctaattttac actcatcata tacttatcta tgccaacact tcagtaaaaa 240
gtaaccatag tgactgatat gaccaccatc ctcatcttca tctactggta aacagagtga 300
atgatacatt aatgcatatt atccactagc caaactaaaa tgataaaaca tgaagnttaa 360
cttaatctac cta 373

<210> 18564

<211> 421

<212> DNA

<213> Glycine max

<400> 18564

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aattctttga ccctttgaat gaccaaattg gctttcgatg tcttcatgag acttgtagag 120
aattttatcc ttacattca agcactggta tcatgttatt tggaccatta caacataatc 180
aatccctaaa gcattgcagg tttgttatat tgtgaggaca aactgacatc tctatcttca 240
tggtcagttt cttccaagat ccaagcctta tttgcccatg acttctccat aaaagatata 300
tatacttttc tcttagcttt ctacaaccac tgagatcatc ccaaattcac tttttagtgc 360
caagtagttt tcaaattatt gcacacatat gaaactgtca aggcaaacca gcgtctctaa 420
c 421

<210> 18565

<211> 386

<212> DNA

<213> Glycine max

<400> 18565

agctttgaaa tgggtgctaac caagcgaccc gtgcgtatgc acggggttgca tactagttaa 60
cataaaatca caatatctat aaaccaatat ggtcagtcta gtttgcataa ggtcattgaa 120
gcaaacacta ttaccattgt tgcgcatggt ctaaaaaaca aaaactaagc atataatgag 180
tagctcactc tatgattagt taaggctcga attctcacia aaggaaacgt atctgatctt 240
ctcttacaag aaattgtatc tataagataa tatttgtgaa aacaatacat taactagtat 300
tttaacgtga atttatatca tttaaagtga actaaaatat gtaaatacat gataacaaaa 360
ttattgatac atgttaatta attaat 386

<210> 18566

<211> 407

<212> DNA

<213> Glycine max

<400> 18566

cctatatata ctcaagcttg tacgcacatc gttcacgtgt atgatatcca ctccatcatgg 60
tttgaagtac aggagaacta caaccttata tcgcatcgtg gcggacaaaa gtgggcagtt 120
aacttgaatg gtcacattg tctatgccga tagtattcta cgcttcactg tccatgtcta 180

cacattattg cagcttgtgg ttacgtgatc atgaactact accaatatat agatgttggt 240
catatcaaac aagcacattt taaaagctta ctccgcacat tgggtggcctc ttgggaatga 300
agcggctata tctccttctg atgacgcatg gacacttata cctgacccaa tctcaattct 360
tgcgataggt cggccaaaat cttccaggat aacatattat atggatt 407

<210> 18567
<211> 387
<212> DNA
<213> Glycine max

<400> 18567

agctttttatc caaatctctg actcaccata aaccttgacc cagtgtgaca atgtcaatcc 60
ttaccctctg atgcaaagaa aataggagag aaggaaaatt tccaatcaaa ggataaaagg 120
agaggaaagg aaattcccaa tcaaagagtg ggataaaagca caaagaaaag aaataaaatt 180
cccattcaaa gaatgggaga aagaaaaaga taaggataag aaggaaggat agctcctgat 240
caaggatcga aagaaaacag aagacatgtg catatgggat ctctggacca gacaatatct 300
atacaaatac agaattgtca cctaataaac aaaagaaaca caatgaaacc atagcctaata 360
agtgagcata tgcctttgat taccaac 387

<210> 18568
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18568

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aacaatgtca tacataaata aaagcacata caaaattgtc ttagaatttg ggcttatgac 120
ctaactcaat cccacaaaac cagcttgatt gatgtggaac taaacaccaa gcaattaaca 180
cagcccccaa agatgccgca aataaggat gttaggggtg accgcaatta aggtgacttt 240
ccaacatttt ctgaaaacag tatctttaat ggatttgaca ctcaatgtac tactgccttg 300
atccttacca ccaaattaaa taaaccacat agtcatcatt tacgttaaga atttaaaatc 360
atatcaaaca ggaaatttat ttataaaatt ccacaatgaa gctagtctta cacaaaa 417

<210> 18569
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 18569

tttcttgcca gattttaaac tactatacgt tgtattaaga aatgtttggc acggctccaa 60
 aacctacca ccacctacat caacgaattt tataagacaa tatcttatca gcatcaagta 120
 atacatagct gtttattctt caatcaatca gaaaagctct ccaaatacaa atacgcttca 180
 ccagaagaac gcgactgaaa caaactatca caaaaagtgg catccaagct tctatatatt 240
 gccaccacgt ttacacgat agggatgtgc cctacatctg ccaccactga aaagtataag 300
 gcagatgtca aacctcaaaa gtataaattc ggaagaaaaa ttaacctacg ttaagccatt 360
 aaaaagaaa 369

<210> 18570
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 18570

cactatataa tactcccgct tctctcactt tatttaatat tatacattac attacattta 60
 tttgattatg ttgctgtaac tgtcattatt tttttaccat cattctgtca aaaccagttt 120
 ttacttcttt gtttctcaat tattaattaa tgtgtatttg atacaacaac gtagtttcta 180
 ttatgaggga tgtgctgcag gtcccacaaa gagctagtaa tgttccaaac atgcttattc 240
 tttgttttta attttcaacg aatttatttt tttcaacttt ctttgcagct cttgatctgt 300
 gggtctgact tacatatgct cctcactgcg gcatgagtaa tgaactttgt atcacattat 360
 cgggtgacaa atatgtataa taactatttg agctttgcc 399

<210> 18571
 <211> 296
 <212> DNA
 <213> Glycine max

<400> 18571

agcttgtgtt ataaaaactgg atcgagaagc tagagctcag ctccacacac ccctctcgtg 60

actaagctta cctgcttgag aagctgcctt aagacgatgt ctatagaggg gagagcttag 120
ctacacatac gtgtctaata gcttatctca cctacttgag aagagaagct cgaacttatac 180
tacacgtccc ctattctatc tgagctcacc cccatgacaa agggcatgaa taggcgaaac 240
gaggccttac ttctaggact actcattatg cccagcata catggctaaa tcccta 296

<210> 18572
<211> 406
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18572

cggcaccaca agcatacaaa ctgttactgc ctaagtcgga aagaaatnaa taaggagaaa 60
tgtgctcgaa nacacgaaat aaatgtcggg gacatactaa atcgcgatga caattttgca 120
cgaagaatag acaggggctg tcaggcaagc ccacaaaaca ccaaaccgg cgaaaacgcg 180
attaggtgtg aaaagagcgg cgaacactga ctatagaaga gaaactagag acaaagaagt 240
atacagagaa ggaaccgcag cagcgcacgg caacaacact gagtaacgaa aggacagtcc 300
taatgcatga agcacagaag atccggagat caggaggaa accgaaaaga aaagtaaacc 360
gagtaaaaaa acgcagaact ggtggaccag cgatatcaaa ccgaag 406

<210> 18573
<211> 527
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18573

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caagaacnch cggagaggag catgtgacgc gtagaacatc acaggcaaac aaaaacgcac 120
cccgggatcc tcaaaaagtac acctgcacgc acgtatctta cgttcgcga gacatccgta 180
cgcgacggta tccttacctg tgcgacacca caacaccaca gaccacttga gaaaaccatc 240
atacgcgact gctcaggcgc ttatggcatg cgcaaccaca tcggttagagc ataatgagga 300
cagcattaga caagcaaccc gctggataaa ccctctgcaa gatcccatat aggcctagac 360
aagacacaaa cttgcaaatac aggaaccatg agcccagaga cccacgcaa ggacagtaac 420

agggcgcgca tgaccaaccg acaaccaaata ccaaccgaac caaatgaaga gtagaacaac 480
 accatcataa atgcgagaac tatagacacc ggcgagcata gacatac 527

<210> 18574
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 18574

tgcttgatg cctctatctt gcttctgttt tggaactata cgtgagtaac gttgttctat 60
 ttgatatggt tggaaacctt cgggttctcc tctgtgctac ttattttgct cacgatgaca 120
 ttaatgagtc atgaacccat cttattggag aggccggaga tgttcgcgca cgtgacgccg 180
 aaccactagc atggcatcgc tatcatttca gtcagagaaa gcggcggtcc caaaggcatc 240
 cacgacaaac tttaaagtga gaagtgcgat gtcgtccgag gagagagaaa caaaggggtg 300
 aaagaagaat atgaacaacg tatacggaaa cttatatata tatatatatg tatatatcta 360
 tatatatata tatatatata atacg 385

<210> 18575
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18575

tatcagtggg gtactgttaa tacatgtctg aacgctcctt atatgatgct aggtagagtg 60
 tggatacaaa aaattaaaat tcagaggaat atgtaagaca tggaaatgca attatattag 120
 ctaatcgata ctatatatta tttgaataaa ataatatcaa tttgggtctta acattatctt 180
 gatgatgtgt gaaatataat caacattatt ccatggactg ggccgatgaa ataagtgggtg 240
 aactcttcaa ttcgcctcta agtgaagtcg gttatatctt caacctactt cttgctgtat 300
 cctccttaat gctgagtga gatacacaga ccgatggact cactttgcca tgctatttga 360
 gagagagaga gaggaggacc atgtgtagga caaatgtgat aaaaatggac tacaag 416

<210> 18576
 <211> 89
 <212> DNA
 <213> Glycine max

<400> 18576
 agcttctaaa ctttatacaa gaatgaagtt ctgataccac ttgttggaca agtggcctca 60
 gatatcttaa gaaggggggg gggggggggg 89

<210> 18577
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 18577
 gtgcatatga tctatttgct ccagctcgta tgaggtagtg cagaatgatc gaatcatttg 60
 tctttgtatt cttatcacat agatcggaaa cttaaactct gatatgccat attcatcaag 120
 gcactattcg agaagtacac tgatcatctc tcctctcatc tcatttttgt atcccatata 180
 tatgtaacat cttgaatctt ataaatctgt gaaagacaat gacgttatga ttctctctca 240
 ccttcatttc aagaatttca ttaataaata tgatcctaac cggactcggt gactctaccc 300
 tggaaaccgg ctgcataaga tttaacaatc cacttcgatc ttgtccatac tgctcaaaag 360
 tgagtttctc ctcagatacc catgagaaga ctacactcga atctaattctt actgtcacat 420
 taaaag 426

<210> 18578
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 18578
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 gagtgatacc tggagatatg tcgcggggggt caggagacct tatggatgtc aggtgggggtg 120
 ctattgcca aaaccaagct tgaccaatcc cgaccaacc cgggcatagt cagtcagtga 180
 gaacctgtga tgtacctaaag catgcgagct cctggcagtc aacagataaa aggaacatag 240
 accacaaagc aaggaggctt gtgtggtggc tggccagctg tgaactttga ttgatatatg 300
 ggatatggcc tctggtaatc gattaccaac ggtgggtcat cgattaccag gcttaataat 360
 gaatacagga gactaa 376

<210> 18579

<211> 418
 <212> DNA
 <213> Glycine max

<400> 18579

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 catcctaaag tggtcattct caagaacctt tctgatgagc attttgaggt aacattagaa 120
 tggtaattct gatgttagct gagaaaggat ccatacttga agtatatcct ttagatgaag 180
 tcaactgtta tgtctttctg aagtaggata gcttcatcaa tcttaacaca tcttcacagg 240
 ttaaagcatt cttaagtaga ttgcttcata aggttaaagt gaagcaacag ctgttggtgt 300
 gttagtgttc tacctaaggt tagactatct aacgtatcca atcttcatt ttggtgatcc 360
 atatcagatc ttctcatgga cgacttcaac tttcaacttg attgcatttt ctaatgca 418

<210> 18580
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18580

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 gccacactat tatgatctgg agaactatgc atagtgtatt ggacaacaat cccatgttct 120
 tgaagaaatt tcgcaaatga acctgggtgct tgtccatcct ctgtgtatct accataatac 180
 tccccacctc tatctgatct cagcatctta atttgttttc cacattgtat ctcaacttca 240
 gccttaaaaa ctttaaaggc atctaaagct tcattcttag aatgaagtaa gtatagatac 300
 atatatcgtg aataatcatc tatagagggt atgaagtatt tcggacaata tgcattcatg 360
 tctggacaac atatgtcttg tatgtat 387

<210> 18581
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 18581

cttgcaattct gcgcggtggt atgctgtggt aaaagggttt ctatggccag aaatgagcct 60
 tcaatgctgg gaggtgcact gccactgcga ttgggtgccg cattctttcc accaccttgg 120

aacctatggc ccttcagaag tatacccata tctccgctcg ccatgttacg agacgatgaa 180
 ccaaaagctg cagcttcctt gtgagaaggc catttacccc cagcttcgga gattctaate 240
 agactctcag ttgccatact actgaaagat tagctgcccc cttcttttagt aatgaagatt 300
 acaaatatca cattggcgcc taaagaccac ccaaaatcgt caagtcagta tgtattacaa 360
 gacatttacc tcaacaacct tcatt 385

<210> 18582
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 18582

agctttatac aaagcatctg gaggccttga ttgaattaca caatatgact gggacctttg 60
 caaggaatat tcagcactta ttttctgttt ctgatgtccg gtttttaatg gatgtgctta 120
 aatctgtgta cttgccttat gaatcgttta aacagaggta aaagcgtatt ttaatttaaa 180
 gcataattga aaaaaaatga ttaattaagt ttggctgatt atgccttttg gcatttggtt 240
 tcagtattat agaagaattg ggtgggtcta tgggagagag cttcatatct cacaatatat 300
 tgtctcaaat gtataagtat gaaataatag gaacagatag ataaatttta ataateact 360
 ggccttatga tatgtcatgc tt 382

<210> 18583
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 18583

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 caaggagaat ggcatagtcc catacaagta caggcacccc ctctttctac tcttatgtta 120
 tctttttttt gtatttggtta ttcccttgag tttgttttga atgtgctcac tattgtttct 180
 tgtgatttgc aggaggctgc agcatcatca ggtagattga ggagattttt caccatgtgg 240
 tactcctact ggattagatg ccatagacca ccaatttgat ctttaacttg gtagttgaac 300
 cttccatttt gttgtctttt cagattgtgt tggtgaaacc tactctactt aacacgtgta 360
 ctgttttaat tg 372

<210> 18584
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 18584

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agaattatgt gaggcaatac ataaagaata ttggaacttc caattattct gatgagtaca  120
agaaggtcct tcacatgatg accttcgatg caaggaaagc agttgaacgc tataacgata  180
gatatggccc tgatgccttt gatagagtag tcagagcggc atgatacaaa actatgaatt  240
gcttcacact aaagctcatc tatatatctg tgtttttaac gttttttttt gttaactttc  300
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agttggaatg aaacgaa                                     377
  
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<210> 18585
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 18585

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caaagattag tatctaactc tcaaccagaa tactctcagc actcaatttt tttatgtaac  120
attataaaat tacttttata aaattcttaa gcttgtttat catgagaatt aacaaattta  180
ctatatatga gaaagtttgt gattagattc tcctacata tattatatat ttcttttgaa  240
attgggtcaag tgtagtagtc ttttatttta aagggtctaa ttaactagct tgtggctatg  300
tgaattccta ttctcagatc aagtatgtgg ggaatgagca agacaaggga agcttacaga  360
tggaaggatt gaatctaatz gacaaaactt tgtctgttca aggagctcgt atctcgttta  420
g                                     421
  
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<210> 18586
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 18586

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 taataactaaa tatatatata tatatatata tatatatata tatatatata tatatatata 120
 tatatatataat tataataaca ataatagataa atatattatt agataaatat tatatatata 180
 agtacaaaaa aataattaaa cgcattatat atatatgtga gtaattaaat ttattataaa 240
 tattaatata tatatatata tatatatata tatatatata agtaattgaa cgtactaaaa 300
 gcattgagat aaatatatat atatagtatt taaacacatt atatatatat atatataaaa 360
 aataagaacg tgtgaaatat a 381

<210> 18587
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 18587

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 gaagaacggt tgaaaccttt gcgagattcc tcacggaaaa cgttacggaa acgtttcgga 120
 agcgcctcgg cttagatttt cttcacggaa acaatttttc caagcaaatt cgaaagagag 180
 agaagcgcct aaggggctgg accccttctt tcttcatttc ctcccctatt tatagcaaaa 240
 taggggaggt ggttgccgcc cagctcgccc aggcgagcag ggttgcttcc tccagaagca 300
 accgccttct ggaggaatct tctggagggc ccaagtgggc ctgggtgcta tttgcacccc 360
 catttttact atatacacc ccct 384

<210> 18588
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18588

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 attatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagaggaga atcaaggatt tcaagtcaca aaatgtcaag 240
 aacttttatt ttcaaaacaa ttaccattt cttgaacata tctataatt caaagaaaaa 300

catgcaaagt cgtacatgca cacaaaattg acccacaata ttaaactaaa aatccgacga 360
aactaacaac atttacttat taacaca 387

<210> 18589
<211> 410
<212> DNA
<213> Glycine max

<400> 18589

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cgatagtttt tcgagttgaa attgtgaaac ttcaccttta caaagatgga ttcatgccta 120
attacatggg ttggattgat catggtgaaa agatgccaca tgttgataat catcacatgg 180
gtgttttaag tagtggtgta gatgtggcct aaggtgaacc atttatgtta atgcaggaga 240
tgatgtttga tgctcttagg cagcccaaaa tatttgaagc accaaaatca gataacatgg 300
aagagcctat aaatgaagaa gctcaaggat ttataatat gttggtagag gcaaataacg 360
tcattgtttg aagggcatca gtctctaagt tatcaatgtt cacttatagc 410

<210> 18590
<211> 689
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18590

caccatcctc cgacgtactc accaaatant acatantang tntaatagcg gtnnntgtag 60
tagtantgan cntatcgtct cactgntgta ncanannann aaaaaancgn nantcacnnn 120
anccaagaat gatgatantc nnacatttag ggtaccgtcc ngatcagagc acaancctga 180
nngcncncan acngcnanaa catcccgcta accgcagnng cggatnanct ncatagnaac 240
tgacgtacac ctgtcnancg cnactagcat agtacttagt antagaggac acgtgggtgt 300
agcactatca cacgcgagca tattgggatg ccaagacttg gcgctccaca caccagatca 360
ctgaacactt cgcacgtcca gaaccaatga cagcaggagg gaacacacac caactctgaa 420
gcaggaagca atgaaatgca cgcgcgacca cagcgagtga gccacctgcg agacatgacc 480
cgctgctgaa tcccagacaa aaacggggaa aaagcgctcc acaaccagca cgaagagcca 540
caggagaaga cactgtcatg acaagagtgc cagaagacgc acaaagtact cacatccgac 600

gagacaaaac acccgaggga gtaaattccca tgagtaactc gtaaaccatc agcactgaag 660
acacaagcca ccagcccca acccgtggc 689

<210> 18591
<211> 329
<212> DNA
<213> Glycine max

<400> 18591

tgatcaatcc cgaccaacc cgggcatagt cattctatga aaacctgtga tgcacctaaa 60
caggcgagca tctgtcagac aacaaaacaa aggaataaag accacaaagc aaggaagctt 120
gtgtggtggc aggccagcag taaatctcgt gtgataaatg ggtcatggcc tctggtaatc 180
gattaccaag ggtgggtaat ccaatacaac gcctaaaaat gaacacagga cgctaagatg 240
gcctctggta atcgactacc aagctagaaa accagatcag gaagctaggg gagcacctgg 300
caatcataac caccggaaga atcgatacc 329

<210> 18592
<211> 384
<212> DNA
<213> Glycine max

<400> 18592

agcttttgct tctccagaa ggttcctgat gggcccagg ctaagtacac cccctaaat 60
tgatcagttc acccccatctt tgtgtttttt tggctgatct ccttcccaaa tgttgtgaaa 120
ctttacggat tacgcggcga tgagtgttaa gcattcaat ttggtcaacc aaagttcata 180
tgttgacaag caatgtcccc agacgaaatt agggatgac aagggtattct caaacctccc 240
cttcattggga acgaggcggt gtatcaatta tagtcccgtc cttgccataa gacaacttgg 300
ctagcccggtg agaggagcac cgtcagaaga cagtatcaca cctttcatcg cgcattggtt 360
catcgacccc aatgcaatga tatt 384

<210> 18593
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18593

ntataagtgc gggctctggga gacgaaggtc aagtgttcgc gatatgtgaa gatgatgttc 60
caagtacctc ggatttgggt cgaccatgcc ctcttgattt ccagctggga aattggcgag 120
tggaggaacg ccccggcatt tacgcaacaa gcataatgta aacctttacg gtttttaaag 180
ctctatagtt gggcctaggc tttagagttt tcattttgct aaggctttgt gtcttttgtt 240
tttgaattta taacacaagg atctttcttc atctgttcct ggtctctacc cattctcatt 300
catttgcatg tttacttctt tttctaaaac ggcagattcg atgacgagtc ccccgagggt 360
actaatacct gtgaccctgc tatcaacttc gagcaagaaa tgaatcaa at ggaagatg 418

<210> 18594

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18594

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ttccaacata gcaagatcat gatccaaaac accaagggtg acttgctcat ttcantcaga 120
gaagttaagc tcattaaaat gggtaacat gatacataag aattcaacta attcaaaaca 180
tgtattacat aataaaattc acataagtgt ttgagacat aaaatacatg tcatacatat 240
gattcattca aataacggtc aatgtatatt gatgttctcc tttggatgat acaccaacac 300
acaacatata aacataatga tgctaataaa atcttaacat tatttggtta ttaaataatgc 360
accaattagt agtatctatt tcct 384

<210> 18595

<211> 413

<212> DNA

<213> Glycine max

<400> 18595

tgctgctccc ctatttgggg cattttgtgc ctctatctag atgcttacaa ttgctacctt 60
tgcatagta aaaccaatcg catgctatta tgtaaaatgt aaaatataat aaaagtaaag 120
aattaaatat gtactaatgg ttagtcaatt tctcatctca ttagtgctga cttgtggcat 180
ttaacgatta ttttcttctc ttattgacgg acatacactc actacatgaa ttctaattct 240

acttgcttag gaaggtaact ttgactataa taatgggttta agtaaataat atataacgga 300
 aaaactataa atgttgtctt tattaaaggg tgacagatac caacgtagtt aattatcaaa 360
 atgaaatata aataagacaa taatggttaga tctaactagg taaacctttg ttc 413

<210> 18596
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 18596

agcttcatgc atgttgcacg tgatttactt gaattctacc tgggtccatat ctgggctgaa 60
 gcattattct ttggaatact tttcagaatg cggctgagat ccccttttgg aattccgttt 120
 attaaatagg aactcatgaa tttgggtggaa attcttagat aatgatgtat ggactataga 180
 tttctaatag atatgaatac aatgaatgaa gactatttct gccattgata cattgatccc 240
 cccctctccc ttgtcgcgtg atgactgcat tactatcttt gcctgggtca gagcatggta 300
 caaatatgtc tgacataaat aatggcctac tccacgtttg tataagttat atataattca 360
 ctacagcatg ca 372

<210> 18597
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 18597

tgcagaagtt tgggtatgta caatcttatt gacaagtgtt atttcggata gaagtattat 60
 gtgaaattat tgacaaaagt gatggatgca cattctatga caaaagcaac ctgcctttca 120
 tttttatatt atattatttc aaaagccacc tcattgttta aaaagctttc atattttgca 180
 tgaaaaaaga gaggtataaa ctaagataga cagtgatgat cttttatcat gttgggttcag 240
 ataagagact attagacagt tgcaaaagga agctgccagg cttgaatggg agttacgaag 300
 ccctgacctt tctgtgaatt catgtctaag gtcattgcta gctgaaaagg agtcgaaaat 360
 taggcaggta caaacttcat tcttttgtct taacgtttat gtgttaca 408

<210> 18598
 <211> 382

<212> DNA
 <213> Glycine max
 <400> 18598
 agctttaata ttccttcgat acttggttta accttaaaaa aataacacat tctataatac 60
 gataaacaag tgcttaatat ataacgtggc ttacttctaa atgtaacggt aatttagttg 120
 gtagtggtac aaatatatta atagtaacgc catttcatca ttagctcatg cagaaatgca 180
 gatcatacac aatgaccata acaatttcaa tgcagcatgc aacgtttcta atcagacaac 240
 accatcaaaa attccatgtc atctatatga cttattttatc gggcttcaaa aaaaaaaaag 300
 aaaaattaca tatatgttac ttactggaaa gcaaaacaca aaataaataa atgatgaagt 360
 tgctaaaaaa tgattgcata tt 382

<210> 18599
 <211> 421
 <212> DNA
 <213> Glycine max
 <400> 18599
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 aacaattatg acctctccag caacaggtac aatctcgggt ggaggaatca tctaacctt 120
 agatggtcga atccttcaca acagcagcaa caacaacaac agccttattt tcagaatgct 180
 gctgggtcaa gcaaaccata cgttcctcca ccaatccaac agcaacaaca gcaacagccc 240
 cagaaacaac aaacagttga ggctcctcgg caaccttccc ttgaagaact tgtgagacaa 300
 atgactatgc aaaacatgca gtttcaacaa gagactagag cctccattca gagcttaact 360
 actcagatgg gacaattggc tacacagtta aatcaacaac agtcccagaa ttatgacaga 420
 t 421

<210> 18600
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18600
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cttgttcttt ctttgtctaa catacacact tgctcaaact catgaaaaga aacacagatt 120
ccatcacaat catgcattct attcaaaacc aagtcataca ccaattttca caaaaagata 180
aaagtgtttt actgctatgt catcaaaatc aagtcaaact gttccatatg cttcagaata 240
agcaaaccaa ctactaaaaa ataaaactag cagtgtatat aaacataaaa gaaatactgt 300
attgaaacca taagcataat aataatgatc cacanagcaa aataaaaaaa acaaatatca 360
tcaggaattc aaaattcctg tg 382

<210> 18601
<211> 414
<212> DNA
<213> Glycine max

<400> 18601

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catatttata agagaccaac caaacacaaa gcaaccacag cttaaaacac ccgtaacaaa 120
tcctagaaca tttgaatttg caaaggcggg ccatgaccac tttattctaa aacttcaaac 180
acaacacata cttattattt attgatacat gtattacagc tatctctgct tgaaggttat 240
gcatgttgat ctcaattgca gctgcatggg tcgcaagtgc agtttgatcc acagttgcag 300
ccaccgttct cagctgcaac acccatttca gcaccctcga attgggcctt caccggccca 360
acacccaaaa ctagagtctc atttgtgatc ttctcaacgt agtcaaaaga gtac 414

<210> 18602
<211> 375
<212> DNA
<213> Glycine max

<400> 18602

agcttgcttt ttgcaattct aagacactag agagcttcca agtatatgac atgtcccact 60
tgtacttttt ctatctaatt tgcacctgc aaaatcagaa tatgaaaaac ctgttatgtt 120
taaggaggta cctttaggat accacataag caaacactta gcatgatatc caatctactt 180
gcagttaggt agagaagtga ttcaatcata cctctgtatc ttgattcatc cactaattta 240
cctttctcat caaagtcaag gtaggttgat gtagacatag gagtagatgc ttctttgcat 300
tttttcatac caaatttctt tatcggtttt atgcaatatt tggtttgact gaggaagggt 360

ccatgtttca attgc

375

<210> 18603
<211> 416
<212> DNA
<213> Glycine max

<400> 18603

tgcttgtggg gcttctatgg agactggatc tttgagcttc aatgggggtcc tttaatggtg 60
attttccacc atggagatgt agcggagac aaaggaaaag aggtgagagg aggcgccatc 120
cattaaggaa taagtcatgg aagaaggagc ttggagagga tgcttcaatg gaggaaaaga 180
aagagggaga gaaagagaga ggggggagca cggaattgaa ggaagaaaaa gggagagaag 240
ttgaactttg agttgtgtct cacaagactc tcattcatca aagttacaac aagtgttaca 300
catgtttcta tttatagact aggtagcttc cttgagaagc tttcttgaga aaacttcctt 360
gagaagcttc tttgagaaaa ctctcttgag aagctagagc ttagctacac acaccc 416

<210> 18604
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18604

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aagcctgttg acacgtggag atttacgtca tcttccgcgc ttacaagatc tgtcatattg 120
agttttgagt cacgctgacg ggcggaaata ctcgagtagt tatccttata aactttttgt 180
tgtttgtaag acgaaaagcc tgatagcacg cagagactaa cgtcgtcttc tgcgaccttc 240
gtcaatcgcg gccgacaagc ccatttaaaa gcggtgattt acgtcatott ccgtgctcac 300
aagatctgtc atactgactt ttgagtcacg ctgacgggcg canatacccg agtggttata 360
ctaataaaat ntttgctgtc t 381

<210> 18605
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18605

nttcgtctta cagaatgcaa caagtttata cggataacca ctccgggtatt tccgcccgtc 60

agcgtgactc aaaagtcagt atgacagatc ttgtgagcgc ggaagataac gtaaactctcc 120

acgtgtcaac gggcttgtca gccgcgattg acgaagggcg cagaagacga cgttagtctc 180

tgcgtgctat caggcttttc gtcttacaga taacaaaaag tttatacgga taaccactca 240

ggattttccg cccgtcagcg tgactcaaaa gttagtatga cagatcttgt gagcgcggaa 300

gatgacgtaa atctccgat gtcaacgggc ttgtcggccg cgattgacga agggcgcaga 360

agacgacgtt agtctctgcg tgctattatg cttttcgact tacaga 406

<210> 18606

<211> 386

<212> DNA

<213> Glycine max

<400> 18606

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atttaactgt ctttgggctt ggcggccacg atcaacaaag tactttgggc acctatgtta 120

aacaaatggc ctcagttatc ttaagaaggg ggggttgaat taagatattc caaactatct 180

cccctaatta aaaatctatt tcacttttta ctcaagttat gaattccctt aatgacaatc 240

ttcttaaata ttaattcaaa tgaaacaatt tgaatatgaa tataaagaaa taataaataa 300

aggagattaa gggaagagaa aatgcaaact cagttttata ctggttcggc cacacccttg 360

tgcttacgtc cagtcccca gcaacc 386

<210> 18607

<211> 410

<212> DNA

<213> Glycine max

<400> 18607

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cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat attaccatat 120

ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180

cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240

acattgtata ttggtttaat gttggacatg ctgaatgaaa tgttgtttct caaaggctaa 300
 aaaaaaaaaa aaatcgaaaa aaaaaaaatt cggaaagaaa gaaaaaaaaa aaataaagct 360
 atatagttga gtgaataaga tcttaaattgg cacaagaatg atgaaactct 410

<210> 18608
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18608

agcttttagca tggcttctgt gatagaagcc atttgatctt ttaaggccga taggtcggcc 60
 ttcatctgtt ctgcactcc ctcttcgtta tccatcttac ttctggatcg ggtgttatag 120
 ggggtgccttt gcgctttttt agttatgggtg agttccctaa agaaacaaat agtagtgagt 180
 atgccaccaa aacatgaata tgctaataa tgatcagagc acttggatcc acctcaaggc 240
 ctttttagac aacgtgatga gtttcagaac ttctcttttt ataaaaagga acaaaagctt 300
 ctatctagcc aagatcatatc aaaagtgtta caacagaacc taacggtttc taattatgtg 360
 ggccattaaa tctatcatgt gttgaca 387

<210> 18609
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18609

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 ctcaaatatg tggggcaatt ttggtttggt ttcttgcttg attgggttga attggggggtt 120
 tgtatgggat ggccctaggc ctataatgca ttttgaagca atggggcatg ccacattgtc 180
 cccgttctct tgctattgat gcctaaacgc gcgccacca agtgttcggg gaaatgcctc 240
 aatggcatta gcgtgtgact tttgtaagga aacaacccat ggggcatttt ggtttgtaca 300
 tattttctat tttttgggac atgtattcat tcccgaataa ggctagaata attgcctcac 360
 atatatacta ggcctaggaa ccaaagttct tatgcaaaaag aacacaagag gaggtgcatg 420
 tt 422

<210> 18610
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18610

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ttaccctcgg gagcaaaaaa gaaaagaagg aaaatttcca atcaaagagg aagcaaaaaa 120
aaagggagag aaggaaaatt tccaatcaaa ggaacgaaaa ttccctatca aagagtggga 180
gaaagcaaaa agaaaagaaa gaaaattccc aatcaaagaa tgggagaaag aaaaaaaga 240
gaagtaaaaa agaagaaggc tcaaggggtca aagaaaccag aagaaatgtg cagagagggtc 300
tttagaccgg acaatatctg aacaatacag aattgtcacc aaatgaacaa aaaaaaggaa 360
aggaaaccat gacctanaat ggtcttctcc ct 392
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<210> 18611
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 18611

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ttcgacctct tgaaaaagac gctaataatt gcaccagtta tagtggctcc caattagggg 60
caagaatttg aattaatgtg tgatgctagt gactatgcgg tagagtagta ttaggacaaa 120
agagaaatgg aagatttcat gctatctact atgccaacaa agtgctaaat ggagcccaaa 180
ccaactacac aacaacggag aagaagatgc tagcagtgtt tatgcccttg aaaatttttg 240
atcatatctt gtaggatcaa agatcattgt gcaaactaac catttagcta taaaatatct 300
actcgctaaa gcggattcga agccaagatt aattagatgg gtcctgctac tacaagagtt 360
tagtttagag atttaagata aaaatgggtg tgacaaccta gtagttgatc ttttatcgag 420
acta 424
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<210> 18612
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 18612

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 ttaccctcgg aagcgcaaaa tgagagaagg aaaatttcca atcaaagtaa aaaagagagg 120
 aaaggaaatt cccaatcaaa gagtgggaga aagcaaaaag aaaagaaaga aaattcccaa 180
 tccaagagtg ggagaaagaa caaagagaat gagaagaagg aaagaaagct cctgatcaag 240
 gatcgaaaga caaaaaagaa gaaatgtgct gaaagggtctt tggaccggac aatatctgaa 300
 caatacagaa ttgtcaccaa atgaacaaaa tgaaggacag gacaccacga cctataatgg 360
 tcttc 365

<210> 18613
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18613

agctgggttg gaagcttgag atgagtttgt tggaccaagt ggcctcggaa taattaagaa 60
 gggggggtga attaattatg aacgtgtctt agctaattaa agaattatcc ttcttaatat 120
 tactagattc aatgaagctt tacaactaag ttatgagaaa gtaaagaaca gaaacaataa 180
 cttagacaaa agtaaagcag aaataaaaag tgcacagcgg aaaataaaga gtgtagggaa 240
 gaagaagaca aacacaagat ttatactggt tgggccacaa cccgtgccta catccagtcc 300
 ccaagcaacc accgattctt gagatttcca ataaccttgt taaatccttt acaagcaaag 360
 atccacaacg gatgtatcct cccttggtct ctttgaacaa ccaagtggat gta 413

<210> 18614
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 18614

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 ccaagcccct acttttgagg ggcaacaccc accttatgaa gactatccca ggcaagacga 120
 tggggaagga gatacccatc ttggccccct gctccacctc aaagatccgt cccgcgatga 180
 actaccctaa ccgaacatag tccgtcatc cccggcctca cccacacctg taaaagaatc 240
 tgttcccttt gcggaagata agggaaagat tgaggcgctt gaagagaggt tgagagcagt 300

cgagggcctc ggcaattacc cattctcaga tttggcggat ttatgtctcg tgcccaacat 360
cgtcacccct cccaagttca aag 383

<210> 18615
<211> 423
<212> DNA
<213> Glycine max

<400> 18615

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tttcagccct tgctggcatg ttcacccccca atttgatact cgccaactg ctaacacaaa 180
ttagatagat gtaatatcca acaagacatg acttaagtaa taatggtcag ccggagctcg 240
ggaggagggtt ttaagataaa ttcgtagaag caaggtacaa aatatacaac catattaaga 300
aattaaatat gccttacatc atgttgaaat attaattttt ccaaattcaa ttgaacttaa 360
ttatgccaat gtcaagatga aaacaaaatg tgcattatat tggcaacctataataagaga 420
aag 423

<210> 18616
<211> 384
<212> DNA
<213> Glycine max

<400> 18616

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acagcgtcaa ggaattcttg caccocgaat acaaaggcct ctttgagtca ctctgcaatc 120
cttcatacac agaggcatgt gcttgctgaa aagactcttg tccaagggtca caaatcatgt 180
cctccaagcg atctcccatt tctacatcaa acggttcaga ttggggcttg ccctgcatgt 240
ctgtcatttc accatgccat atccatgtcg tataattcct cttaattcca tcacacaata 300
gatgttcccg tatgtcatcc agtatttgtc ttctatcggt caaacaattg atgcaagggc 360
aataatattt tccatcttca tccg 384

<210> 18617
<211> 415
<212> DNA

<213> Glycine max

<400> 18617

tccatcaagt ggtatcaaag cacaagagct tcaagtatgt gctcttttaa cctccattaa 60
ttttttgctt taccttctct tccattgctt tttcttcatt tttctccatg tatctcctca 120
catgtcttgt tctaaatggt gttaacatga ttctttacag tttccaccga ttaaacttgc 180
tatagaagct agatttgatc ttctatggct caaatttctt gctcttggtc ttgaaccatg 240
aattgtgttg agtttaagtt cctttgactt ctgtcttggt attttttgtg gctgaaacct 300
aaaccataaa atccttacia aactattaat gtagaagacc acctcataaa tctagagtga 360
cttgatcacc tattgtagtt ttctcataga agtcatgtct agtcatgaaa cttgt 415

<210> 18618

<211> 383

<212> DNA

<213> Glycine max

<400> 18618

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tggaggaaca tcctggaagg cccaagtggg cctggttgct atttgactc cccattttta 120
ctaaatacac ccccttgctt ttttttgctg attctttttc cataacgtta cggaaactta 180
tgaattacgt aacgatactt gttttccttc cataatgtta cgaaacctta tggattacgt 240
aatcatccct tttttgcctt ccggaatggt acggaacttt acggattgtg cattaacact 300
tccttttaat tttcgacatg tcatagaact tcacggattg tgctacaatg ctttcttttg 360
acttccagca tgtctcagaa ctt 383

<210> 18619

<211> 414

<212> DNA

<213> Glycine max

<400> 18619

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ggtgttccac gaaaggaata cgcgaggagt cgccaccaac gtttatttga ggaaaacgtc 120
ggaaaaaccg gaaaagacga gatctacgaa ctttttagtg aaaggttcgg gagttgtatt 180

tacgcacggg gaaggtatta gcaccccaca cgcccgctcc aagggacggc agcctttaat 240
cgaatgtgca aacatgactt tgatTTTTat gttccctttt atgttcttat atcctttata 300
cccttttttag attttttcct ttttttTgtg tgcacaaggg tgtttccctt tgctcctaca 360
tattcctcaa tttgggatga gaaaatcaga cctacgtagt tctttcggaa caaa 414

<210> 18620
<211> 384
<212> DNA
<213> Glycine max

<400> 18620

ctgcttcttt caatcgggtc catttaagtg gctttcagtc atccatagag ttctctctat 60
cacttcttgg gtctattctg aaccattga caccatccat cttattgtgc tggcttttaa 120
agtgggtgat gatcccaaac gttcccgaaa tcataatgtg gatgatagga atatgctagg 180
gcatcatcta ctaacctcta atcattgtcc acatactgct gcctactgga aaaatctcat 240
tgaaccattg ttgggatgcc acagatgcct tcgccattct ctctaacca caggagctcc 300
actatttgcc ctactgctaa tggcatacta ttcatcacc ctcaacatcg acaaccgagt 360
atcatcttct agtatcttgt cact 384

<210> 18621
<211> 334
<212> DNA
<213> Glycine max

<400> 18621

gacctataat ctcagctttg acgtggacaa agaaaaagt cttcagatta ttttgagcgg 60
tggaggcagt ttatatccga tttgaccatg aaatacgcac ttgtagccga cgagtacggg 120
gtggacgata ctgtctgtga aaaataccgt atcaacaagg ataaatgggc ccattcttgt 180
cagacccaca tggatcccta atgggaggta tgttctttgc aatttgaatt tatctacact 240
aaacattcag acattataat agatgggacc attcttttgc tcattatatg ttagattgtg 300
gtgcgatgta cggtacaaaa cacacgccat cctg 334

<210> 18622
<211> 372
<212> DNA

<213> Glycine max

<400> 18622

agcttgtgtg aagagataga caaaaaaaga cttagaaaat tttttgcaat tgtctatccg 60
ctaagcgcat agaccctga ttggttggct gaatagttca gctaagcaca tatcattgcg 120
ctaagcccca catcttcaca gtaattgaat tttaactagt gggcttagtg tggatgatgt 180
gctaagcacc acttcttcct gggaaaaaat ttatggtagc agcgctaagc cccacatcta 240
ttttgtaact tgagttttta agctgggctt agcaggccag gaggcgctaa gcgccaatct 300
cttacaatt ttgaattctt ggaagtgcac taagcgcgcc tattgcgcta agcctgaact 360
actctttgta ag 372

<210> 18623

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18623

tcaatggagg anaagaatga gagagagggg gggcactaaa ttgaaggaga aaaagaggga 60
gagaagttga actttgaagt gtgtctcaca agtttcacat tcatcaaagt taggacaagt 120
gttacacatg tttctattta tagcctatat cactaactaa atgaaagctt ccttgaaaag 180
cttccttgag aaactttctt gagaagctag agcttagcta cacacacccc tctaatagcc 240
aagctcacct ccttgagaag tttccttgag aagctatagc ttagctacac acaccctct 300
aatagctaag ctcacctoct taagatgaga agctaaagct tagctacaca caccctcta 360
atagctaagc tcaccccatg ccaaataca tgaaaataca aaaaaaaat ctctacta 418

<210> 18624

<211> 374

<212> DNA

<213> Glycine max

<400> 18624

agcttgcctt gaccgaaggt ggtcatgaag tccacgtagc ctctggtctc gactctcacc 60
tgcaaagccg aggagtggac ttgtgtgggg gtggacagta tttggtgaga cctcaagttt 120
ctggaaagtt ttctagtaca agatatcaac ggaactgcct tggtcgatga ggaccctgaa 180

caccataaag tttgctataa tgatgaagac aaccacaggg tcatcttggg tgacgaggtt 240
aatgcccttg aagtccttgt ctgtaaaggt gatagaaggg agactttgtt gtaaggggtgc 300
gttgacaaaa ttaatgttaa tgtctcaaat ggcacgtaag tgccatattc gagattgggtt 360
ggactatcct ccat 374

<210> 18625
<211> 409
<212> DNA
<213> Glycine max

<400> 18625

tgtacaccac agatgatgca atcttctgta gagtattccc gtcgtcgctg aagggacatg 60
ctctccattc gttcactcgc ttacccccca acttgtggac tcgtttatac cttggcagcc 120
tgcttcggca tgtagtttgc caccagccga cccaccact taacatctat agccctcgtc 180
aacatccaac tagagacaaa agaaccatta ggaaccttca tagaatgttt caaaaggatt 240
tcattgaata tctgaaactt ggatcccaca gtagccatgc accacttgat aatagcgta 300
aagctgggag cttttgtgaa caacatatgc aaaaaaccta catctaata ggaatgagctt 360
cgaaggagag cggccaagta catgcaaata gagaaattgg tcaagtata 409

<210> 18626
<211> 380
<212> DNA
<213> Glycine max

<400> 18626

agcttgaacg aatataagaa acatcttctt caaccttggg gattcttgac tccatctcat 60
tgaagcgcat gtccacttgt aatttcaaag tgtcaaacct ttcaccaaca aaggtttgaa 120
gaccatcaaa cctgtccaaa atctttgaaa gaagagatga atcttctcca tcatgtcctt 180
cttcaccaac atgtcgagca ccctttttca cccaagagcc atcatgctct ttttgataac 240
caaaggatgc aatgactgaa ggcctatta ggaaggatct cttgattgga acataaggtt 300
cagaatcaag agggatgtta aagtgttgaa ggaagagagt gactagatgt ggatatgaca 360
atggagcatt caatcgcaat 380

<210> 18627
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 18627

tatgctgcaa atatttaca tagacctcct caacctcagc agcaaatca accacagccg 60
 aacaattatg acctctccag caacagatac aacctggat ggaggaatca ccctaacctc 120
 agatggtcca gccctcagca acaacaacag cagcctgctc cttccttcca aaatgctgtt 180
 ggcctaagca gaccatacat tctccacca atccaagaac aacaacaacc ccagaaacag 240
 ccaacagttg aggccctcc acaaccttcc ctcgaagaac ttgtgaggca aatgactatg 300
 cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360
 ggacaattgg ctaccaatt gaatcaaca cagtccaga attctgaca gcttccttct 420

<210> 18628
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18628

agcttgtggc aacttagatt attgtttcta taatcaaac atcaaatgg aaatcaacga 60
 aatgcaaact aggtgcagga agagaaaata gagtgagatt cctagtgtta aaaaggaag 120
 atagaaggac acataggtag gcatggcaat gaaacctgta cccctcaata tccgcttaaa 180
 ctogtcccga ttttgaggga aaatacccaa gttgaaaggg tacgggttca gattcaggga 240
 ttatccaact ttttaaactg gggttggaga cagggatgtc actacctatc tcatactcat 300
 tctcgacctg ccccgatgat gaaattatga aatttttatt aattacttgt taatttttta 360
 taatttttac ataatttaaa attctttt 387

<210> 18629
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 18629

tgaaggcatg taaccacaa tcttttcata gtagaactga tgcaatccta ccctcccaag 60
 ggaattggat agcagactcc aagaagattg ggccaaagat gcaagagaag gccttaggat 120

tctcatgagc cttagggtag attttggggc catgggctaa gtatgagccc acttatcttt 180
ctacatatta gattaagggtt tcattaattt ggggccttgt atttaaggct ccataatata 240
ggtaggggtac cctagaaatg taggattttt cagcccttgt attttagggc acctagacta 300
gtttttgtat tacgggtagt tttgtaattt cacatgcatt aagtgaatat ttgatgtgtg 360
cgttgagaaa taaatctaata tgaattggga gaagcccaat ccaattataa ttttagagggg 420
gaggtg 426

<210> 18630
<211> 333
<212> DNA
<213> Glycine max

<400> 18630

agcttctcaa tatattatgc gcctgaatcg gacttccgtt tgaaaagtta tgaccatttg 60
aatttctcga gagcattcgt tgttcaattt cgagggtgtc gatgtattat gcgcctgaac 120
cggacttccg tgtgacaagt tatgaccata tgaatttctc gagagctttc gttgttcaat 180
ttcgagcgtc tagatatagt atgcgcctga atcggactta cgtgtgacaa gttttgacca 240
tttgaatttc tcgcgagcag tcgtggttca atttacacct tctcgatata ttatgcgcct 300
aaattggact tccgtttgaa aagttatgac cat 333

<210> 18631
<211> 416
<212> DNA
<213> Glycine max

<400> 18631

tctcgatata ttatgcgcct gaatcggatg tccatttgaa aagttatgac catttgaatt 60
tctcgagagc atccgttggt caattttgac cggctcgata tattatgcgc ctgaatcgga 120
cttccgtgtg ataagttatg accatttgaa tttctcgaga gcttccgttg ttcaatttca 180
agcttttcga tatattatgc acctgaatcg gacttccgtg tgacaagtta tgaccatttg 240
aatttctcga gagcttccgt tgttcaattt caagcttctc gatataattat gcgcctgaat 300
cggacttcca ttgaaaagt tatgaccata tgaatttatc gagagcattc gtagttcaat 360
ttcgaccgtc tcgatataatt atgcgccata atcggacttc cgtgtgacaa gtcattg 416

<210> 18632
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 18632

agcttcctta agaaaattcc taaagaagct agagcttagc aacacacaca tctctaatag 60
 ctaagctcac ctccttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
 aagctcaccc ccatgacaaa aaaaagatga aaatacaaaa aaaaaagtcc ttactacaaa 180
 gactactcaa aatgccccga aatacaaggc taaaacccta tactactaga atggccaaaa 240
 tacaaggccc aaacgaagga aaacacctatt ctaatatatta caaagataag cgggctcata 300
 cttagcccat gggctcaaaa tataccctaa ggctcatgag aaccctaggg ccttcccttg 360
 gatctctagc ccaatctact tggagtcttc 390

<210> 18633
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 18633

tccattgttc aatttcgggc ttctcgatac attagacgcc tgaatcggac ctctgagtta 60
 aaagttatga ccatttgaat atctcgagag cttccgttgt tcaatttcaa gcgtctctat 120
 atgtgatgcy ccttaatcgg acttccgagt gaaaagtaat gaccatttga atttctcaag 180
 agcttccgct gttcaatttc tggcgtctcg atatattatg tgctgaatc cgacctccga 240
 gtgaaaagtt atgaccattt gaatatctcg agaacttccg ttgttcaatt gcgagcgtct 300
 ctatatgtga tgcgctcgaa tcggacgtcc gagtgaaaag taatgaccat ttgaatttct 360
 caggagctta cgctgttcaa tttcgagcgt ctcgatatat tatacgctg aatcggacct 420

<210> 18634
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 18634

agcttaaaca ttcaacttcg agcgtctcga tatattacga gtctcaaaca gacatccgag 60

taaaaagtta ttcgtttgaa tttgctcaga gcttcaacgt tcaatdddga gcgtctcggt 120
atattacggg actcaatcag acatccgagt aaaaagttat tgtctdddgg attggctcag 180
agattcaaca ttcaatdddg agcgtctcgt tataatcacgg gactcaatca gacatccgag 240
taaaatgata ttgtcccttg aattggctca aagcttcaac attcaatddd gagcatctcg 300
atatatgacg ggactcaatc agacatccgg gtaaaaagat attgtcgttt 350

<210> 18635
<211> 423
<212> DNA
<213> Glycine max

<400> 18635

tcagcttcta tataagctga accatdddta caatatacac aagttgagtt ttattcacia 60
aattagagtt tatctctddd atcttagtga gagtgattct cctaaattct tgagtgattc 120
aagaacacct tggctgtatc aaaggacttt cacaaccttt gtgtgttgcc ctgctggaa 180
agagtgattc ttccctdddct ttcatcatca cccttggtct ttcaaaccac aattccagaa 240
aatccacctc tgcccaaaat tatctcgtgg ccataactcc catdddacgc actcaaatca 300
agtgattctt gagcctaaat tgaatdddca aacgagacct ttacactcgt tttggaatca 360
cctcatdddg agccatgtag cttagttat tgccatdddct atatdddctgt ccagccacca 420
ctt 423

<210> 18636
<211> 379
<212> DNA
<213> Glycine max

<400> 18636

tgctttacat ctaaagcgaa cacacaattg gcatgctcct gagattcact agtcgatctc 60
gcaagcaact cgattagact agcgattggt taccacattd cagcgtaaac acaaccttaa 120
ttagaaacia atattactag tttgctacta ctatctaaat cactaaaata tatctdddct 180
ttatgttaaa cctcatattd ctcatdddca ttaaattaca aaattaaaca agtatcataa 240
tccatacaaa gcatatcacg agaacaaagt taacataaaa acaatdddac caagttdddca 300
aataattdac ccgaataaaa aactagataa acttdattga aagccgacat catcttattt 360

caactagaag tttcacttt

379

<210> 18637
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18637

tgcgttcccg agagcattnt tcacttgagc gtttcagcct ttgctttcgt gtagcttagg 60
aaaaacatca tttcttctcc tttctttctt ccaaagccat ttctaacgtc tcaagcactt 120
tctccatcat ccacaaccac cattagccac cacaaactgc cgttggttctc cgttgaaacc 180
ccacatcgag aggaaccctt caaccgaagc ggaatattcc aacttgccctt gcgatttcgg 240
tagagaacga aaccctaate tgacctttca tttttccttc gaggtaacca tgattccatg 300
tttggttctt gttagtttca tgcttgtctt cgcattcttt ctgactttgg aaccaccatt 360
gcatgtttta cgcttccttt aaaaacctta gagcatagag actntgtaaa cgttatct 418

<210> 18638
<211> 384
<212> DNA
<213> Glycine max

<400> 18638

agcttatcaa gaggatgtaa tttagttatt ttgcatgaat tgttgcaaaa ctcacatact 60
tgagttcaat ttttatgaat aaaaaaatg tttaaagcta attacacact tcaacaacaa 120
ttatatttat tgtaatgaga atgggacaaa ttcaatgaat tattgtaaat tcattttaga 180
atattttctt aataatcttc taacttatta aattaagaaa tattcattgt ttttatattt 240
atcaatttaa taatatggaa taaatttaac gaattattgt acgagacaaa agcttgcaac 300
ttttacctta gtgattcata attataatta ttaatgtgtt gataagaaag gtaggaatat 360
aggtaaaaaat gcactacaag ataa 384

<210> 18639
<211> 420
<212> DNA
<213> Glycine max

<400> 18639

ctacgaaaga tgaaggggaa gattccagag attgtgggct ctcacatctc atctcggggt 60
cttcagggtat gcttggttgg atcccttttt tttttcgttc aatttcagtt ttacatactt 120
ttagaggaac ttgcatttta aatcttttgc tttcattttg ttttaactga tagacttgtg 180
tcaagcattg ttcacaagct gaaagagatg cagtatttga agagcttcgg ccacattttc 240
taactctagc attcagcgct tatgctgttc acttagtgaa gaagatgctc gacaacggta 300
atggtctact tgaaatatac tttgttattt gtcagtgtca ctttttcttc taattgggtca 360
ttctccattt tcagcttcca agaaacaact agcaggcttt atctccactc tccgtgggtca 420

<210> 18640

<211> 386

<212> DNA

<213> Glycine max

<400> 18640

ttgcttattg gaatttgag gaacttctta tgggtgggtca agaaacactt cgaaaattgt 60
ctggattagt tgggaaagag tatgctccct cacagaaaaa tgcggccttg ggattaaaaa 120
tctctacctc tttaatatta gcctcttata taagtggagg tggagatttc ttcaagaaag 180
tttgcaattt ggtccctttt tattagattc agatatggtt gttctttctc tgatctatca 240
catctgacct acaaaactag tttgcttcta acattattca caatgacaaa aatggctccc 300
aaatgaaatt tcggtatgtt ctttggtttg gcaacacaaa ttttcattgt gtgcataatt 360
ggttttaatt tagactctac aaattt 386

<210> 18641

<211> 399

<212> DNA

<213> Glycine max

<400> 18641

tttcttcca tggcttattg cttagcggat ggtgctcct ctcacctctt ctcttttata 60
ttctgtaca actccatggc taaaaatcac cattgaagaa ccttattgaa actcaaagat 120
ccagccacca tataagcttc tcaagcaagc ttccatcaag cggtatcata gtacaagagc 180
tttaagtaag tactccttaa acctccatta tccttcattg gtatttctta atttttctac 240

atgtatttcc tcacatgtct tgtgttgaat gttgttaaca tgatccttta gaatttccac 300
cgattaaact tgctacaaaa gctagatttt attttctatg gttcacattt cttgttcttg 360
atcttgaacc atgaattgtg ttgagtttac gttcctttg 399

<210> 18642
<211> 386
<212> DNA
<213> Glycine max

<400> 18642

agcttgtcaa ctctcatcc cattttcttt tttctaattc ctctttaaatt tcgtcaaatt 60
cagtgtagta tactaccaca tttctctctg ttagtagttt ccttggcacc attatatcag 120
tgtacctctc ctaagcttct tgagaatgaa acctacatct atcaaattctt gcttgggtag 180
aggaagaagc aaaagacttt ctcttcttgg aagccatcta aaaatataag atcaaacaac 240
aagggttaaaa caagattatt caacaaaaaa tagaaaaata aaactaaaaa ctgaattggg 300
cgcttagcgt agcaggctgg gcatagcgcg ccttatgaaa ttttactcat gggctaagcg 360
cagtagactc gcgcttagcc taaaga 386

<210> 18643
<211> 418
<212> DNA
<213> Glycine max

<400> 18643

tgccaaggag aagttcaagt tggccgctac acacatccgg aaggagtgtg ccggattacg 60
ggaagagaat gcaactaccg cgagagccct tgaacaagag accaagaggg ctgcgaagga 120
agagtatggc cggaataaat tttgcggagc tctatggggt agcaataatg aactcaagct 180
gcgaagggaa gagagggacc agtcgcgagc acatagcatg gttttgaaag aggagttagt 240
tgctgttca aggtccaaaa gaagcttgtc tcagcgttta tgcgagacgg agaccaacat 300
gctagctatc atcgccaagt accaagaaga gttaggtcta gccacgaccc acgagcatag 360
gatcgcatag gatgatgccc aagtatacgc agaaaaagag gctagaggaa ggggtgatc 418

<210> 18644
<211> 375
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18644

agctttcaca ttaagaatta ttaataattg tttgtataat taaactccaa cagaaaaact 60
catgatctta attctgaatt tcggccttaa ctttcacttg ttggttacca cttttctctt 120
tgaacaatgg tgaagatgat ttacaagtaa aacaagctgc cagaaatata gagttagaca 180
tttctatgta atgctttcag ttcaataacc tacaacataa caatagacaa agaaaactat 240
atcaattttt tttttgagtt agctatactt ttatgtcaac attgaattct tagtaaggta 300
ttccaagtta aagcaccaac aaacttnttt gtctgtcttt gatttgtact gtgaatgata 360
tgattattga aattc 375

<210> 18645

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18645

tgtaatcgat tacacaaata ctgtaatcga ttaccataac agattttcag aaaatattct 60
caacagtcac atctttttat gtggttcttg aatggctatc aaaggcttat atatatgtga 120
cttgagacac gaatttgcta agagtttttt agaacaaaaa ggtcttatcc tcttaaaaag 180
caaaatcggt ttatcctctt acaaattcct tggccaaaac acttgtgatt caataaggaa 240
ttatttgggt gctcaaattg ttcaatctat ctctttcaag agagattact tcttctcttc 300
ttctttattc tgaaaaagga ttaagagacc gagggctctt tgttgtaaag aaatttgaac 360
acaaaggaag gattgtcctt gtgtggttca gatcttgtaa tanggtttta caagat 416

<210> 18646

<211> 351

<212> DNA

<213> Glycine max

<400> 18646

agctttgagc caattcaaac gacaataact ttttactcgg atgtctgatt ggtcccgcc 60
atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaattcacg cgacaatatt 120

tttttactcg gatgtctgat tgagttcttt aatataacga gacgctcgaa attgattggt 180
 gaacctctga gcaaattcaa acgacaataa cttttttctc ggatgtctga ttgagtcctg 240
 tcatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300
 actttttact cggatgtctg attgagtcct gtcatatatc gagacgctcg a 351

<210> 18647
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18647

ntaacttaat caattcaaaa gccttttgtg cttgttcatt ccacccaaac gcacccttct 60
 tcaaacattc ggcatagga cttgctatag tgctaaaatt ctggataaag cgtcgataaa 120
 atgatgcaag accaaggaaa gatctcacct ccgaaactgt tgtagggtc ggccaagtct 180
 tgatagcatc cacttttgtt tgatcaacgg atactccatc tttagacacc acatatccaa 240
 gaaacaccac actttcaacc aagaaatcac acttttccct cttcccatag agtttttgtg 300
 ctcttagggg ctcaaattt tgtttcacat gagtgaatg ctctctata gatttgctat 360
 acaccaatat gtcacaaaga taaacaacaa caaacttacc caca 404

<210> 18648
 <211> 373
 <212> DNA
 <213> Glycine max
 <400> 18648

agctttacag cagattttag taatgaccct ctaacctaga attaaaataa cttaatgcc 60
 ttaacctagg gaattaaaaa aaaacttaat ggctgagtg aactgaaatt gtggcaacca 120
 aaagtcaccc ccaacagcct acaagtcagc caccatttgg tctcccaaaa ggctgatgcc 180
 taggttgcca attgggccct tattacaact tgaactaaac ctaactaaag cccttttagt 240
 tgattaaccc aaaacatatt tttggtcagc caactttaca aggattgggc cattatttag 300
 acaaactaaa cactctaaaa ttgagacaaa gtggtgtcat ttagtctctc tccatttggg 360
 ccattatttg gac 373

<210> 18649
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18649

tcgagaaaat tcaaacgaca ttaacttttt actccgatgt ccaattgagt cccataatat 60
 atcgagacgc tcaaaattta aaaaagaaac tctgagcaaa ttcaaacgac aataacattt 120
 tactcggatg tccaattgaa tcccataata tattgagacg ctcgaaattt aaaacagaag 180
 ctctaagcaa attcaaacga caataacatt ttactcggat gtgctattga gtcccgtaat 240
 atatcgagac actcaaaatt taaaacagaa gtcatagaa aattctaacg acaataacat 300
 ttactcgggt tgtccgattg agtcctgtaa aatategaga cactccaaat tgaaaacaga 360
 agtccgaga aaattcaaag gacattaact ttatactcgg atgtcttatg gagtcc 416

<210> 18650
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18650

agctttctcaa acgctttctag agtcacattc atcgattatt acaaattaaa atgtttccat 60
 ccacttcagt gttctccctc attacttaga gaaattaatg atttggtctt gatctaatat 120
 aatggtataa ggtagccaac atataatgca taggatccaa atagtaaaat tgtgtaataa 180
 gatactttat gtatgtttta gtttggtttc ttatgtttta aaagtttcac tttagtctct 240
 tgttctcttt tcaactctcat tttttatttg atcctcacia acttcacttg gagacatagg 300
 tgtgagggta accttntec ttttatgaac aaatganaat ntgtatgtga caccattatg 360
 gacaacatcc ttatcatact gccaggcct tccagta 398

<210> 18651
 <211> 112
 <212> DNA
 <213> Glycine max

<400> 18651

ttgtactttt cgtacaacac tgtggcggat gattgaggct ggttttcccc atcctaaagc 60

cttatttttaa atgttaataa atgcaactgc tttgaaacgc taaggctgac ta 112

<210> 18652
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18652

agcttgtacg attatggtgt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
gcacaacaag tttttccaca tccacaatgc ggcataaac ccaccatccc ctgttgccca 120
cctccaactg agctcacgta ctcccacgta gccatatcc tcgtttctct caacaccggg 180
tccccatcaa tcctccaag ctccacaat atccaagcaa aacaacattc acacagcaca 240
agctatcaca gccaaagcaa acagagcaaa ggcagaaaac tctgccaaaa caccaaccaa 300
aatcacagc ttttccact caaagacccc agtaacaatt ccttcgatcc aatgcgtaaa 360
cogttggatc gactccaata ttntactgga agtctatagt gcataagcct acat 414

<210> 18653
<211> 455
<212> DNA
<213> Glycine max
<400> 18653

tgcttgtggg gcttctatgg aggttggatc tttgagcttt tatgagggtcc tttaatggta 60
attttccacc attgagaatg gccaaaatac aaggcctaaa agaaggaaaa acctattcta 120
atatttacia agaagagtgg atccaacctt gacccatggg ctcaaaaatc taccctaagg 180
ttcatgagaa ccctaggggt ttcttttagta gctctaacc aagcctcttg gactcttcta 240
tccaataccc ttggggggta ggattgcac atccccctca ccttggaag gatttgacct 300
cacttattgt agggatttgg tgcttaataa tacctatttt gggcaccaac aaagcacaag 360
gatttaagct cttatgaacc aaaccctcat ccaacaactc ctttacttga ggaataacct 420
caagtccaag aggtgtgaca gttctaacia gtgtc 455

<210> 18654
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 18654

agctttgact tgagtcatca agagattata aatatgttac catggcataa gtttcaaaaa 60
 aagatcaatc atcaatcatc tttgaatcat ctatctttca atctttttca acatcatctc 120
 tcaaacatct ttcaatcaat ctttcaatat ctttctacag aattttctga ttcattttctc 180
 ttcattctttc taaaaagttt ttgatcaaca ctttctcttc caagaaaagt tctttgttca 240
 aaaacttgtg ctattcatct ttttcattct cttctccttt ttccaaaaga acaaaggact 300
 aaccgcctaa attcttttgt gtctctcttc tccctttgcc aaaagaacga aggactaacc 360
 acctgaattc ttttgtctct cttctccctt acaaaagatt canaggacta acca 414

<210> 18655
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 18655
 actcatgcat gagaacaatt ctcaagttgc gggacctatc tttatatattg gctccgacta 60
 gttttccaga ttcaagaata ccatgaagcg atagagaaga catactgtag attacacaca 120
 caacacaaca ctagcatgtc aaagcataat tcttcaaacc ttgtaaagaa tatctaaaga 180
 ttaataacac tcccactaat tacaataata atatattaat gtaagaaata cttattttctt 240
 ttaagtggat aacatacagc ctcttacaaa attgcgagca agccacttgg ttatctagtc 300
 gtttttcata cacgttctaa gacaatgtat catattcatg ttcaaatcat aataagatat 360
 accatatcat ataagctcct agttagcacg tcgatcctat tgatatcaat aagctaatga 420
 taacact 427

<210> 18656
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18656
 agctttcata ccaacaagct gaacattaat ttttttttta tcaagttaat ggttcattat 60
 atgccaaaaa ctctttcagg attgaataat acttctctcc tacctatcaa agaatttttc 120

ttgctccagt ggaatggaaa atttgaggaa gaatgatgag attgtaactt ctgatcaatc 180
 taagaaccaa atatcacttt cactcaatac aaacagtata ttttgtatat ttaagaacaa 240
 caagacatca ttcctatgac caaacactta catgaaaaga acagaataag aaaatgagaa 300
 aacaatacac ttgccaagat atgtgggaaa aactacataa aaagagaagt gtaggtatta 360
 aaagattcac ttggactcca aatgttgaaa ttggttgatc atgcacatat 410

<210> 18657
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 18657
 tgatccttga atcttgattc ttgaattcat ccttcttctt ttatcttgaa gtgatcttca 60
 acttttcctc ttgagtcttg aattgttctt gattccttct tgaacatctt gaactcatcc 120
 tttgattgaa cttttcagtt ttttgcata cctttgtcat catcttttgt tatcatcttt 180
 gttatcatca aaacatcttt gaatcattct tgattcacca tgaagctttg cttctacaca 240
 attggcggct aatatcttct tatgattttt gggggcttaa aaaccccccc acaaattgca 300
 aaacgccatc acaaatttgg agggctgggg taatgcattg ttggagcaga agaaatcacc 360
 catggaacat ttgcatctgc agaccttgat cttctttgtc ttcatcatcc aagggacctg 420
 tacattcatt cacatgctcc aatacct 447

<210> 18658
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18658

agaggattga gcttgtgaac actgaacacn aaaccnaaca cacaataccc agcgttccgc 60
 gaagcgaagt gtggttgcaa gtatcgacag gacgcaggga gagcaagggc gagtatagta 120
 cacaccatag cttcgttaga ggaaagagaa agacatctga cgcatacatc cattggaaca 180
 gaccgataca aagcgacaag atatggacct gccgaagacc aagcaacaat aactctcgag 240
 atctgaacca cggacatgaa ggtgccggaa ataccaacag agaagacgtt cgccttaccg 300
 aacggaaagc cgggacggaa ggtacaatgt aatgacggcc ccaacgagtt accaaagtga 360

ctaagacgtg gagaccacga aagtgaatag ccacggtgag aaaaatgaag cgacacacgg 420
aacaatgggg ggcctaaca acgag 445

<210> 18659
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18659

tataagaaca aaattgcctt aatcattttc aaatatgtat gtgatttttg acgcatcaac 60
aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaacatac caaatgatta 120
taatgatgga tggctcaa atctcacaag gtaaaatcat cactttcaaa tcgagctttc 180
aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240
tttattttca aaacaatntc ccattttttg aacatattcct ataattcaaa gaaaaacatg 300
caaagtcgta cgtgcacacg aaattgaccc anaatattaa actgaaaatc cgacgaaact 360
aacaacatta acaaattaac acaactaaca aattaacaaa accaacaaaa ctagcaaaac 420
caaagaacac tcccaccccc atacttaaac aacacattgt cctc 464

<210> 18660
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18660

agctttatcc tagtacaagt aaaatcaaca tattgagcct ttagtcaaca ttagatttta 60
tggttttgat aaacctatca accattagat tgtcgagagt ttatcaatca ttagtctcct 120
gagaaacaaa atcttgatgt atagtacaag aggccctagg atgagtcaga cgaagctcac 180
cattaatcca catgtagaga aagcttacct ctttctgact aaactcttct ttaagtcggg 240
tgatatcttc ttgaaattga acattttctt cttgtttctca ttgtgcataa gcctttgatt 300
ctttagcatg gactntcaac tcgttaaact cttccaacaa tgcataact cgctctt 357

<210> 18661
<211> 452

<212> DNA
<213> Glycine max

<400> 18661

tcaggctggt caattgcttt agattgttgc acatatttca aagggtctgtg tgggtggcga 60
cagaggagca taaaccatag agtctggcga cagggtgcaga ttttttattc atggccagtt 120
gggttaccag gttaactaag gcatctagtt taccttcaag cttcttagtc tcagctaatt 180
aagatgaatt cgtgggtact tcatgcactc ctctaataac aatagcatca tttctggcac 240
taaattgctg ggagtttgaa gccatcttct caattaaatt tttggcttca gcagggatca 300
tgtctccaag ggctccacca ctggcatcat ctatcatact tctctccatg ttactgagtc 360
cttcataaaa atattggaga agaagctact cagacatttg gtggtgaggg caactagcac 420
atagtttttt aaatctctcc cagtattcat at 452

<210> 18662
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18662

agtttgctcg tcttgtggag ggagtgcgtc cttctttagc cattgaccat tacgacctt 60
acgataacca aatgaagtga ctgcaccagc acctatagca aaggaacgct tgacttgaac 120
aaaagggttca tcatcaagag gaatttgaaa atgacagaga aacaaagtga ccaattgagg 180
ataagggaga ggtgcattgg cccgtaatgc cttatgcatt cgggtaccta ccaagtgagc 240
ccagtcgatc tgacaactag taagaaaagc ccacatcana atcaagtcct cctcagaggc 300
ttgagctaaa tttgaagaac ggngaagcan aattctaaca ataatatagt gcaagatgcy 360
acaatcaaag gttaatgagc tggccagcaa tctaccggtc at 402

<210> 18663
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18663

tcaagaataa tgacctcagc aaacttctta ttcttatatt gattctcaat aaattggcct 60

cccattttta atggagaggg ttaccactac tggaaaatcc gaatgcaa at tttcattgag 120
 gcaatagatt taaacatttg ggaagccata gaagttggac cttatgtacc caccatgggtg 180
 gctggaaata caacaataga gaagcctaga gaagagtggg ctgaagaaga aagaagatta 240
 gtgcagtata atttaaaggc taaaaacatc attacctctg ccctaggaat ggatgaatat 300
 ttttaagggtg caaattgtaa gagggtctaa gatatgtggg acactctact aggtacacat 360
 gacggaacaa atgatgtcaa aagatctacg ataaatactn taactcatga gtatngaatt 420
 attangatga agacaaatga gagtatacaa gata 454

<210> 18664
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18664

agtctttaa gtaggccact aaaccattca aattaataat aataataata atactaatac 60
 taataataat aatcacaaaa tatagataga gttccttatt aagttcatga ccttacctat 120
 cggtgttctc caaataaaat taaaatttca ttacaagaca atctatcttt ctaagtttta 180
 aatggatcat tatgatggaa actctaattt taatgatggg gcntnngtta aaacatctaa 240
 atttgtattg tagttagaat gaattattat tattatccta cacctaataa cttttctttt 300
 atctcacttc caattttttat ttattttttt ggatcaacta gaggatccat agttgagagt 360
 tagaatgaag gaataaggat taatttctta acaactaaaa tttatttaca aca 413

<210> 18665
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 18665

tgtcttttga gattaatagc tatcgtgcca ttgttattgt caacttataa ttgtctttta 60
 gataacacca tatttcggta gtccagttgt tcccatattg agtatgatgg gggggcatgc 120
 gttgttctag atttttagcgt atgtaatata ttgaacatta ctgtcaacat tatgacggaa 180
 atataacgtt ctatattgtc gtatctgatg caaagtaaaa gcccatatag aatatggggtt 240

ggtttgatcc aatccgattt tcaagcctgg tttgacggat cagatggatc aatctgtgta 300
 ttttgtcgag ctctatgtga gattccaacc ataatacaatt atcatatagg tataagggtta 360
 atttgtttta atttatatat tcatataaat atttattcta ataaaataca gagctccata 420
 ttcttttgtg tat 433

<210> 18666
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18666

tgtttatttg acttatgaaa gtggccttatg aattattacc tccccataag ttattttcaa 60
 cttacctagg cttaagggtc aagcttttat acacacctta ttaagttgtc cactcaaaaa 120
 cattctaogt cttgttgtaa taatttattc aataaacatt tttatgtgaa gaaaataaga 180
 aagtaaaata aattgagttt ctctcgtata taaaaatcaa cttatgcact caactttaat 240
 agaaattctc ttaactggat aattgaaatg tataagttaa ttttaactta tggaagaaac 300
 taatctcagt ttatcataac ttcttttttt ataaatactc gtggaaacaa tattctaact 360
 ggataataaa aagatgaaat agcatttggt taatagcagc atgtggtggg 410

<210> 18667
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18667

ttgtgtaatc gattacactt atttggtaat cgattattag tgtttgtttc tgaaaaatct 60
 aaagatgtaa ctcttcaaaa aggttttgac tttttaaata ggggttttaag tttttctgaa 120
 agttataact cttctgaatg gccttcttga ccagacatga agagtctata aaagcaaggt 180
 tttttttttt gcatttttga aacaatcttt ctaacaacaa tcttgaatac ttttgctttt 240
 ccatacaatc ctttacaagc cttgaatctc tttgaatctc tttgaacttc ttcttcttct 300
 ttgtacaaa agctttctga agttgtctgg ttgtccaaac cttgaaaact tgngetatct 360
 atattttcat tctcttctac ctttgccaaa aagaattcgc caaggactaa cgcctgaat 420
 tctttttgtg tctctc 436

<210> 18668
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18668

tagttattga actgtctcta actttttttt ttagtccaat ttaagttnta gttataccat 60
 ttctttcttg tatttatgaa aggagtgaaa tttccatgtg ttttccacat gtcaaaacat 120
 agctaacagg actttgattt aaaagtgtga cccttttctc acaacaaaca gggttcgattg 180
 taggagtttc ttgttagtag acgatgtgta ttctttattt taagtttttc atagagggtg 240
 atgggtttatc ctaaatttaa aatagagatt catctatgcc taaacttttg tatatcaata 300
 ataatatattt gttcacagtc ttgttattat aatctggatt ttcatatcat ctcaattata 360
 attgcaattg ggaagagagt atgagtattc atggatcggg tctgatt 407

<210> 18669
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18669

acactataaa actaagctta gatgaagctc aaagaaatat aatcgttagt tacacaaaca 60
 cttgaaatga aaacctgata atctagatgc tttgaagaaa tgagtaacga acctacacgc 120
 tatcattcaa attctttatg tagaaaactc tttgtatatt ctttaataagt ttgaaaagct 180
 ctcaaaacat cttgaatact ctaagacaaa aaactaaatg cttagatttc acatttgttt 240
 gtaagatgat taagaattaa tcagtttagca aatcanacaa catatcttct gatttgtata 300
 gaaccaacag tggctgggaa ggacaaagaa tattcgggtg tttaaagcttg gcgataaact 360
 atgttgtgat agctaanagt aacagtgaca aatacttgta actnttgtga aattagtga 420
 acttgatggc taaccaaaaa ctgaacttag tctgaatggg aga 463

<210> 18670
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 18670

ttttgttgca agtttatcat tagatcaggg aatctatgta aagtagtaaa atatatggaa 60

agttgtaaga ctcaacaagat tacgataaac aatctattta aacaataatg tattgtatat 120

gttcaaaggt gtttatgata tcatgtgtgc tacctatcta tggactttgg cagcaaattct 180

tcacacaaaa taccgtaaga ttgattctca ggtcaagcaa ggggtggttaa ataaagctct 240

ctttagagta atgctccaaa gatgataacc ttccaacatt ataggtaa at ctttcccggg 300

gtcagtttat aatcactgtg accaaccatt aacaggtgta tgtgctagct ttacacataa 360

taattaatgc attttgatat attatgcccg aaattatcat gaaagcataa c 411

<210> 18671

<211> 436

<212> DNA

<213> Glycine max

<400> 18671

tgtattacaa gcaggaatga caatctttca aggacgtatg agtaattctc aaggagata 60

tttgtggtct aataaatata aagcccaaga gagaagaaaa tcgaatcaca ttgaaggaag 120

tatttgctgt tcctatttta tataaaagaa gtaacagaat tttgtcacat tttgtccatc 180

taacaaaaaa aagtagaagg tttatggtca cttcataaaa aggaaattct agacaagatt 240

gtaataagaa aattgcactt gtattctgat acgggatatg gagatgtaac atatataaa 300

taacagaacg atatgttctt tgggtgttgc atcgtatctg attatggttc tgcatacgta 360

ttctacaaac tggaattaac atagaatatt acggatggaa tgcttagaac aatattcttt 420

ttatattgat tgagta 436

<210> 18672

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18672

agtttatgaa acatacaatg aaaacctggt tgctttgttt cgggtacaag gtgcaagtcc 60

agataatatg caggccatcc aagttgatca agtaagtttc aatgattctg actttatcca 120

tagtggagcc ctttttaata tatcttatct ctaattacca gaaaaatgga tagcaattat 180
 caaggctttc aagcatagct attgaatatg gactaaaaca ctatttcaat attttgttct 240
 tattgaatat ggactaaaac actaggcact taagtccaac ctattgtgct ctattgatga 300
 tgggtctattg gctgatatat atgttggctg gaaccaaataaaaattataa tcagaataat 360
 tattnttcca tctgtggtgc tcanaatggt aactttgaaa c 401

<210> 18673
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18673

tgctcttcca tattgtgagt ctttgctgaa acttgattat aactggttcc caagttgatc 60
 agagagttgg actaaccctg actggcagtc ccaaaaagtg aaaaggtgga gaagcaaccc 120
 tgcataaaaag gaaatttgca gctggctcat taaatctttg gtttgtgcca atcccataaa 180
 agacactctt aaggaagtta actaacaatc cagagaccaa ttcgaagcct cggaatattg 240
 cttttattgc ccaaagacta tcatgagtca cctgtccac cataactgaa tcatcagtgt 300
 attggagaat tgagtattgg aactcttctc caactttcat acctttgaat agtcttttct 360
 ccaccgtgct atgaaccgoc ccgtagacc ttgagcagct atcaagaaca naaatggaga 420
 caacggatca ccctgcttca agcctctta 449

<210> 18674
 <211> 351
 <212> DNA
 <213> Glycine max
 <400> 18674

agtcttggtc ttaatggatg gctatctgac gatcctctag aggacatcc tatagactat 60
 agatacatgc agacagagtc tcttctgct caccacctat gttgagagac atgaagactg 120
 ataactgcag agagtgaatg atagccgctt acttatcgag acctatagat gtatggaacg 180
 ccgaggaaaag tgaatagatt atgccacgtg acagtaagat gactgagatt gttataggct 240
 tctggacgca gctactatat cctatatcat agttatacta ctcagcacag aatgtgacga 300
 tgtatgctct atcaaaggaa taatacgccg aggtatcctt tagtagatgt g 351

<210> 18675
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 18675

taacataggc tccgcatacg cgggagcact aagggccatc ctcgagttta gggcgtgtaa 60
 gctagagcgg gcgtaacgcc tggcttacgc tgagcctggc tgaagaggcc tgctgcgcac 120
 aacgcacgga tcttgcgcta atcacgcggc ctagaagctg atgctcatgt caaatctacg 180
 tcgcgctatg cgcgatgaaa ccgtactaat cctgaggata gctagcacia ccatctgtta 240
 ctttatgcac ttcataacgc tatcaattat ccacctgaca tggcacataa actatcggta 300
 aaaacaatgg acatatgata gagccatcct tctacatagg actataatta tctaca 356

<210> 18676
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18676

agcttaatct gttttctctg ctctttgatc ccgtgaaaaa aaaaatggct ggagatgaag 60
 aaaagcttcg aatagtgtga tgtttccatg gctagccttt ggtcacatga tcccaaacct 120
 tgagctggcc aaactcattg ctcaaaaggg tcaccacgtg agtttcgtat ccaccaaga 180
 aacatagagc gtcttccaaa accgtcacta aacacacttg atatcaattt cgtgaacctt 240
 ccactgccta aagtccaaaa ccttccagaa aacgcagaag ccaacactga catcccctac 300
 gacgtctttg aacacctcan agaagcctac gacgttctcc aagaaccgct gaaacgttnt 360
 ctggaatctt ccanaccgga ttgagtcttc tacgacttcg ctccc 405

<210> 18677
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18677

tagcttatcc atctttgtcc cattttcatt gtgaggttat ttcagcagtt atgcaacact 60

tcatatgccc cactgtgtgc tagtcctaag cttactacac caagacccaa atttgtgatg 120
 tgtaattcat caagccaaat cccgtgttac cccatttttt gttgcatcaa tttgggtaac 180
 agctctaaca aagatgtaca ctcaatagca atgccctatg ctctaacatt aaaaattggt 240
 taactatfff tcttttcaca aacaagatat ttgagtagta tgtttttgcc cttgtaactt 300
 tttgatacaa aaaaatcaac tccagcatgg aaaagagggg gatttttctaa catggcattt 360
 gcctaanaat ctatacacia tgttggtac gaaaaatcac acagtttcca aactctgaan 420
 aagaaccagc aaacaaaaca naagtatgta ttgac 455

<210> 18678
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18678

agcttgtcaa acacattctc accattttca tttgctgtta aaccactcc aaccaccag 60
 agaattatat tacttttctt cataacagca ttttcaggga aatgtaagag agacaacaag 120
 caacgttttc caacatgatc aagtttgta caattacct caatcatttc caactcctca 180
 cggtgtatgc tcgaaggag ttttcttgat gactgagaat cctctatatt agtactttgg 240
 atttcaccag caggcagcaa cttttgagtt gattctctta ttctcttgog aatgtgtccc 300
 tctcttctg tcaacttatt tatgtttttg gtgcgaagat agccatccag gactgttaat 360
 gtgtcaagga gttcttcttc atttttcttc actaaaggaa acaggctctt tat 413

<210> 18679
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18679

cgcgacatcg aggactacta gcatagatac ttccacctac tcttgccac cttcatacc 60
 taatatcaaa cctctgatta cagcttatca tgacaccac tgccagacct gacacacact 120
 tatagaatgt aaaggagtga tttgagctcc atatctttag tcgacaacta atgctaatac 180
 ctccgtacga attctattaa cagagcattg gtattgacga gacgcattgc agaaagtaaa 240

cgcccgatcc acttcctgta naattcaaatt gttagggtac gattagtccc aacagattga 300
 gttctatatc ctttcagaga caacgataag aatcagacat gattcctcct cactttatgc 360
 cttaagaacc a 371

<210> 18680
 <211> 335
 <212> DNA
 <213> Glycine max
 <400> 18680

agcttgtaag tatttggtgg tataatttgc ctgttccatt atgctcttaa tgtctttaga 60
 gggtatttcc tcgttgacat cttttgtctt gaatggaatt gccatgacag gtttattggt 120
 actgtctttg atgtttggta gttgatattg tgttgcgga ggtaattccg attggattaa 180
 ctccaccatcc ttcaattgcc aatttggtat gacatttggt gttggatcac ctatgatgtc 240
 ttgtttccaa gggaatcta tctcctttct gatggcataa gcatgacacc aatcaaagaa 300
 aaggacatta atcttgactc tctcgacaaa ttcgt 335

<210> 18681
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18681

tcagtcgcag atgcaatctc agggacttgc agttccttct gttcctctgg ttgggtccctc 60
 cggtcctcga gtgagcacia aggggacttg tgttgatccc tcaggaaacg atcctgagac 120
 gggtgactct aatagggtgcg gcttgatcat agaagcaaatt cctaccgcgc tgggtgcat 180
 ggggagagtt tatgagggat ccaactgttg tcataacatt cctttgttgc ctggccaagt 240
 aaagggtgagt gtggaggagc ttacagatgc agatgctcca gttcctgtac ccaactgatga 300
 gggttcctta gtgggatagg catttcacac ctccctttct tggccgacac atctgggtcaa 360
 gtctttatca cagcagggtac ttattggcct tactatatgt ttcttctttn taaattaatt 420
 catgaagt 428

<210> 18682
 <211> 409

<212> DNA
 <213> Glycine_max

 <400> 18682

 agcttgccctt gcccttgat atattcgagg gactcatggt cactatgaat gacaaattcc 60
 ttgggataaa ggtagtgttg ccatgttttc aaagcccgta ctaaggcata caactcctta 120
 tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180
 tggccttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240
 aaagattttt gaaagtttgg caacgcaagt atgggggcat tagtttagctg ttgcttaaga 300
 acattgacag cttcttcttg tttctctcca catttgaaac caacatattt cttgagcact 360
 tcattgagag gtgctgccaa tgtgctaaaa tccttcacaa atcgtctat 409

<210> 18683
 <211> 460
 <212> DNA
 <213> Glycine_max

 <400> 18683

 actaagctcg aattgaaaat ggaagctctc agaaaacaaa ttgtcttact tttcactcgg 60
 attgccgatt caggtgcata acatatcgag acgctcaaaa ttgaacaaca gaagctctcg 120
 agaaattcaa atggtcataa gttttcacat ggatatccga ttctgtgtta taatatatcg 180
 agacggtcga aattgaacaa cgactctaga aattcaaatg gtcataactt ttcactcggga 240
 tgttcgattc aggcgcataa catatcgaga cactcggaat tgaacaatgg aagctctcga 300
 gaaatacaaa tggtcataac ttctcactcg gatggccgat taaggcgcat cacatatcga 360
 gacgctcaaa attgaacaac ggaagctctc gagaaattca aatggtcata acttttaact 420
 cagatgtccg attcggggat aaaatatatc gagacgctcg 460

<210> 18684
 <211> 409
 <212> DNA
 <213> Glycine_max

 <400> 18684

 tgtttctcaa ggaagctacc tagtctatac agagaaacat gaataacact tgttgtaact 60
 ttgatgaatg agagtcttgt gagacatact tcaaaaagtt ccacttctct ccctctttta 120

ttccttcaat ttctgtctcc cccctctctc tttctctccc tctttctttt cctccattga 180
 agcatccttc caagcttctt atccaaggct catcttggtg gtgaagctcc ttcttctatg 240
 gcttattccc tagtggtg cgctctctct cacctcttct cctttgtctt ccgctgcac 300
 tccatggtgg aaaatcacca ttaaaggacc tcattgaagt tcaaagatct agcctccata 360
 gaatccctac aaaaaagggt ccatcaaatt ggtttagggg ttggacttg 409

<210> 18685
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18685

ntcaaattta aggtaccaa gtacacaaca tattctttta cctactgaat ataaattagt 60
 catatccaac tacacatcct aataacaaaa taaaacaaga aatgggtctt cacttttctt 120
 catttttata ctggatcttt atcagcagcc ttccttctag tgaaccttgg tgttggtcatg 180
 aatagtatgg gtgctgttgg tgggccatcc acaacagggt catctactat tgaagtgtcg 240
 gaaatgttct tttgtttggg tcttctttgc tactggtgga acatcaacaa taggtgcagg 300
 gacctacatg caaatgccaa acatgaataa cacttgtaat atataaaaac aaattgggta 360
 gtcttaagag aacaaaatat ttaccatgaa ctccatgtca ctatcttgtg ac 412

<210> 18686
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18686

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 gataaactcc tatgctaagt ttgacgggtg gttaaagctt aattatgtga aatgcggcca 120
 ttaagttttg tgcattgaat tgctttgagt tatgcaattt gttcctttat tatttaaatt 180
 gatctaattg ttttttatta agagaatttt gatcaaccaa gtgctaatta tattggttgt 240
 gagagaattc aattgcacgg ttaaattgga tatgggtgtt aagagatgct taanaagtgg 300
 tttattgctt ttgtaagtga attgaacttg ttctaaagga ggatgtttat ggaaatatga 360

atggtgtgta agtactagat ngacatgttt ttagtttata tattaag 407

<210> 18687
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18687

tgttggagga caatcctact cctctctcct cgatctctan gttatttcac tcaaattagg 60
 gttccgattc tccgttaaca ttgattttgc acttaaataa aaatctgtcc acgtttcaga 120
 tttggtgttt gttcgttttag ctgaaatatg tttttactcc taaaatttgg ataactcctt 180
 ttatcggaat gaccagaaag taacagaatc ggtgtttttg agtagtttaa agtggatttt 240
 aaagcaaccg cgcattcgat ttttctttat cttaatatat tcggttgaaa ttgatcaagc 300
 aggatgttat ctgtatgttc aattcttttg tagctaatat gattcgggtg aatgggtgaa 360
 gctttttag gtttcagttg ttgtcaggta atattctgtt gcatganagt attggctatg 420
 ggctatattg tatatgtag atggttagca tat 453

<210> 18688
 <211> 405
 <212> DNA
 <213> Glycine max
 <400> 18688

agttttaaca aagcacacaa agacaacctc ttcttcatca tcaagaatta cttctttgcc 60
 cttgtagcat ttgacctttt gatagagtac atgcttgtca acaacaattt aaaagctagt 120
 ttctgatgtg accaagcacg agaactgggt tccaacata aagggttggc gagtgttgag 180
 tcattgaatt ttgcctaaag aggcttgtgt ggatcaaata tcctttttat aggtagatag 240
 cttcattatg agttttggcc catgatatga taaatcctag ttagagaaat ttgaactagc 300
 ttcaggatta gccaaacaaa tatcttcagt ctggaaggct acgtctgatt gagagtgatc 360
 ctagggaaga ccaacattaa gtgtgcacag aagacccatc aacta 405

<210> 18689
 <211> 439
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18689

tttgatatag gtaaattggt cttcatatta aaatccatct ttgaatctga tcgcgataag 60
gaagacgagt tatattcatc aaatcaagac cagaatgaga cataattaaa aaaaaattaa 120
gaaaatgaaa tcatcaactt atgaaaccta gccaaagttaa tgacattaac ttcttgattg 180
ttttgtaatt gggtttggtc ctactcttcg tttgacaaca tagctcatca gtcttgctct 240
gattttattc agagtgaat tgtaattcga agacctattc agcgaaatca aagggttgat 300
atctttttcc ttgtttttt tatgtcatgg ttggcttatt caatatggtt ttccttctcc 360
ttcctttctg ctaaaaagta atgattctgc aattcatcct cctctntnta tgctcttatt 420
cattntcata tacaattat 439

<210> 18690

<211> 394

<212> DNA

<213> Glycine max

<400> 18690

tgtcttagtg gctttgtgaa gatgaagagg taaaagtgc tcaacagggt gaggtgtgtc 60
tcaccattgg gagatataat gacaagggtgc tgtgtgatgt ggtcccaatg gaagcgaccc 120
atgtgctgtt aagaagatcg aggcagtatg ataccaaggc agtgcatgat ggcttcacca 180
actacatctc ttcttagcga gctgacaaga agattgttct caaacggtta tctcctcaag 240
aggtttgtga ggatcagata aaaatgagag atatgatgaa gagtgagaca ctcgagagga 300
aaaagagtga gacacttgag aaggataagt gaggaaagag aaagagtgaa acacttgaga 360
gggaaaagag agaatacata gagagtgaaa cact 394

<210> 18691

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18691

nttaaccttg acttggtaga acctcttgcc gggttggttt gtttccatgc ttgctaaagt 60

gagacaaaag ctggtgcaaa tcaaaactcc gatatctcat ggggtggaatg gatgaatgca 120
tgaaggaatg catataacac agatgtaatc tacgaatgcg ggggtccggg gaattcgtcc 180
ccttcttaga cacaatgtct aggggtagca aagtgcccc aacgtacgttt ttaagaaggc 240
gacacggacc ctccgttggg ttgtatacag aagggatcaa gacagaaccc atatgcatg 300
cctatgcaaa agacacaatg cggaatgta cacagtatga taatattcac tgaacataag 360
caaaagggtg tatgatactt atgcatggca gtgtaaaaat ggcacgcagc gtgtttgctc 420
cgtgccccta ttaagggga cctatacgga ga 452

<210> 18692
<211> 411
<212> DNA
<213> Glycine max

<400> 18692

ttcttgtcgc cacggagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60
agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
ggaagcggta tgtgtcggct agttactcaa ggaattgaa attcaagctc caaaaactaa 180
ccaaggcaa caaggggggtt aagaagtatt tcaaggaaat ggatgtgctc atgattcaag 240
caaagattga agaagatgat aaggtaacta tggctcgatt tcttaatggg ttgactaatg 300
atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatttg tttcaciaag 360
caatccaagt agagcaacaa ttaaaaagga agggagtggc taagaggagt t 411

<210> 18693
<211> 443
<212> DNA
<213> Glycine max

<400> 18693

ttatatacac aaaccaaggt accatgagag tgtttcatat cagatacaag aacaatgctg 60
ataagaatta cacttactcc agtgaacaca gttatagcat cttcggcctt agaaccatca 120
gttgatgatg actcacgcca tatctgcca acacctatca cactaaattt tggcaaaaac 180
tcaaccttcg acatgacata taaattctta gccacaataa aatattttaaa atggatactg 240
tctatttaga ggccactata acaaaagtta agagtctta tctcttggtt tagtaatgta 300

tcttcttcgc aagcagaagt gaagataata tattaccgtg gagcctgcat agagaggggc 360
cattaaacca ttgaaaaacc catgaacatg tatattatat atgttaagga ctgacgtaat 420
aaagatatcc caaatgtttt aaa 443

<210> 18694
<211> 411
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18694

ttttcatgca agtttaccag aaatactttt atcaactttt acagattaat tttgaaaaaa 60
tttaatatcc aaattgttgg tatttttagga tcctggtgaa cccataaaat aaaaaatgtt 120
caattttgat gaaaatgctt gttgaaagct gttctgagta cgtacttcat actacatgta 180
tgttatttac catatatgat caaatgaaat aaaatagtaa aaaaaaatgc acatataaag 240
taatgtatgt gtaaattttg atgtaactca ttttattaat ttcaaaaatt aaattcttat 300
tagtaatttc cagttgataa ataactttat tttatactaa tgacttaaata aacacttta 360
tttacaaga gctntaattt aattggttta acaggtgcgt taattattac a 411

<210> 18695
<211> 448
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18695

tcattagaga atcgcaataa caacaacact ttcataatca tcattatcaa tttcagagag 60
tacattttca gacataaagc aaacgcattg cgatgctatc accacatcac ccgtgtttca 120
tcttctcgaa accaaatagg acttatttgt cacaaggatg ggagaagacg aaacacaact 180
aagggtggtga cgacagaaca ttggaatgtg aggaagaaga ggtgagagga ataggatgtg 240
ttgacggctt acctgctaag ggagcaaagt cagcggagat gcaaagaggc gcgaggaggc 300
acgaggagga gaacagggtga ggaggcgaac aaacaagaat gcaaggaaga gtgagcacga 360
gagaaaatat ggctcgtaga gacattttcan atatttttaa atgtatgttn taacatcggt 420
ttctactaaa aaccgatgca tttgattt 448

<210> 18696
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18696

agctgctagc accagcgatt tcaacctaga aatcaagagt agtgtttatg ttgcttaagg 60
 cttggatagt ttcaatttgt gtttgcttat gctcaattat cttgaataac acaattcaag 120
 agagcttaag acttatttga ttctcaaatac cagccacaac tcagcaccac aactaaactt 180
 catcataaggc atcatgtagg aatcttagaa aacaaaaaaaa gagttcaaca acaagactac 240
 ttctaggaat tgatttagaa catgttatga actaaataac atgcatgaat tagactcaaa 300
 attcaaaaga taggctaaga atgacaagtg tataatctaag aatgacatgt attcagaana 360
 agaattattat gaatganaaa tgatagaacc tanaatcaac ac 402

<210> 18697
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18697

tgtagaatgg ctagacatga tacatgttat gggttggttt gggttcaagga taaaagggat 60
 gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaact ttatgcaaaa 120
 ctggtcatgc atgcgcttat ggggacgctc aagtgtcaaa tttttatggt caggatgatgc 180
 taggggttcag gattcatttc ctctatttta aatcaaccca atgtttccaa aatatgttct 240
 tttatcaatt tgtgcattcc tccaagtcca tttcgggctc cggngaaat ttttacagca 300
 ttcacccttc aggtgtagac acgttntttc ttcaaaaatc gggttatgatc aatgaatttt 360
 ttttcaaaga aaagttggaa atcatctctt ttcaaaagca tgtcggttnt tagctagaca 420
 acttattttc tctttttcca cctt 444

<210> 18698
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 18698

agcttgccctg cccggtgcag cagtaatgat ggcccagagtt atgttgggga acggttacga 60

acccggaatg ggttttaggca aagacaacgg cggcataact agcctgataa atgccaaagg 120

aaatcgtggg aagtatgggt taggctataa gccactcag gcagatatca agagaagcat 180

cgcgggaagg aagagcggta gtcaaagctc gcggttgaga caagaagggtg aaggaagccc 240

accctgccac ataagtagga gctttataag cgcaggtctg ggggacgaag gtcaagtgggt 300

cgctatatac gaagatgatg ttccgcattg gatttgggtac gaccatgcc tcttgatttc 360

caactgtgaa attggcaagt ggaagaacgc cctggcattt acgcaacgaa cata 414

<210> 18699

<211> 428

<212> DNA

<213> Glycine max

<400> 18699

tgtgtcggct tgtggggcca cactgaaatc ctcttattgt tgcccttccct ggactgcttc 60

gtggggagct tcttcgtagc caattctagg ttgcctccta gtagcgcttc tttaacgtct 120

tgagccagat gcatgatgac gatttgtcga tcacggacac aatacctgct ggtacctgcc 180

cgggtgggtg gtcgcctact ggtcggccat gtgtcgtacg taatgctcca gcctttgtag 240

atgagctgag gtggactctg caagtgggtg tggtgcatct gttgcccgt actgtgatgc 300

cttgccctgt gcctgcctag gggcgtagta cttctcgatg aaagccctgt taataggggc 360

ctgatgacct tgctgggggc gatgggcact ctatagaact gacagaggca cgtaatcaga 420

gctgga aa 428

<210> 18700

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18700

agctttttct caaagagatc taggaaggat aaagcagctg aaggagcgct gagcaccagc 60

agcgcttcga ggccatcaag ggatgggtcat ttctctggga gtgacgcgtc cagctcaggg 120

acgaagagta taccgacttc caggagaaga tagttcgccg gcgttgggca tcaactggta 180

ccccatggc caagttcgac ccagacatag tctcgaatt ttatgctaatt gcttggccta 240
cagaggaggg cgtgcgagat atgcgatacct gngtgagggg tcagtgaatc ccgttcgatg 300
cggatgctct cagtcagtgc ctgggatacc ctntagtgtt ggaggagggc caggaatgctg 360
agtatggcca gaggagggaa tcgtccgacg ggttcgatg 399

<210> 18701
<211> 452
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18701

tgtagagctg cattgaggct taccaaggat aggccttggg ttttatgaac ctatgagact 60
cacaaagggg ggatcttggg tatgacgagc cttgtgtatg cagcgcatgt gtcgtgttct 120
tgcatacgtg tcaattcatg gagtggcacg tgttggagac aaggtgcata aacctgtagg 180
actcaccaag ggcagacctt gggttttgtg agcccttggg aggatcgaca agggaattgt 240
ttgacctgng ttttgggcat cgtgctcttg catacgtgtc acgtactgga gatgtaattgt 300
tgtgctcttg catatgtgtt actcgtgaac tgacatgtac tggaggcatg gtgctcttgc 360
atacatgtta cttgtcaaat ntcacgtact ggagacttag tgtcatgctc ttgcatacat 420
gtcactcgcc gtggatggca cataccagag ac 452

<210> 18702
<211> 409
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18702

agtttatagc ccaatTTTTT tcaatagtgc ttatttcttc ctattccaat gatgtatatc 60
tgtctgtatc tcgtcggtt aacgaattcc taccctccaa atttaattga aaaaaggaca 120
ggtggtgaag aaaatagagt gacagcatag ccattcacat gatcattgaa tgttataaaa 180
cttttacctg ttatgtagca caccacat gctactttt tttctttatc tgccttttc 240
aacatacctt ttatatttca atagctggga acattcccat attataataa aagtaatatg 300
gtaaggatat gacaaaatcc gttcacattg gtttagaaaa tttccactg ccggcttgat 360

ataatgtatt gactntcatt tgatgatgcc acanaagtcc aagtgtttt

409

<210> 18703
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18703

actcaagcta caagacaaaag atggcctcaa caaataccaa tcaccttatt gaattctatc 60
 aatagacctc caatctttaa tggagagggg taccactact ggaaaacccg aatgcaaatt 120
 tttattgagg caatagatct aaatatttgg gaagccatag aaatagggcc ttatataccc 180
 actacagtag aaagagttac aatagatggg agttcatcaa gtgaaaacat aactatagaa 240
 aaacctagag atagatgggc tgaagaggat agaaaacgag tacaatacaa cttanaagcc 300
 aaaaacataa taacatctgc cctgcgaatg gatgaatatt tcagggtttc aaattgtaag 360
 agtgctaagg aaatgtggga cactcttoga ttaacacatg aaggaactac agatgataaa 420
 agatctagga tatatgcact aactcatgag tatgaatta 459

<210> 18704
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18704

agcttcttat gacttgcaat aaaatccana ttctgaatac agcccctaac caaggctatg 60
 ggaattgagg aatttttaca agaattccat taaaatcgaa tatataggct tgaaaaaaga 120
 agaaccctaa caacttgtaa atcatgaaat tttgtaagtt attgggtact tatagctggg 180
 caaagatata tcgcaaagca tgtgcttaac aatgcttgag gactagaatt ttcgaaaaaa 240
 ttgtcagact acacattctc tttcttatct ttctctaaat tacataagtt tgttaaaaaa 300
 tttccaaaat gttcactacc ccgacttccc tacagggcct tttttaaaat taatttatat 360
 gtttaaattn ttattntaat tntaaatatt aaaataatat aaatattata gtatat 416

<210> 18705
 <211> 458

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18705

tttgtcactc tacccatata tgccttgaca ttaactatac ttaacatcgc cgacaacaat 60
gtcaaggaat tcttgcacct cggatacaaa ggcttctttg aatcagtttg caatgtacca 120
tacatagggg catgtgcttg ctgaaaagac tcttgtccaa ggtcacaaat catatcctcc 180
aagcgatctc tcatttctac atcaaatgat tcagattggg atccactctg catgtctgtc 240
aattcaccat gtcatatcca cgttgataaa ttcttcttaa tcccatcaca caacagatgc 300
tcccgatatgt catccaatat ttgttgcttc ccattcaaac aatttataca aggacaaaaa 360
aaaatttcgt cctcattcgg ttgacttctt taggaggcaa attgcaagaa ctctntgacg 420
ccttcctcat atgcagggct catgtgactn tcgttcat 458

<210> 18706
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18706

agtttcttca tcagaccact tccagggtgc tggaactact tcacatggat ttgatggggc 60
ctatgcaggt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120
ccagatttac ctgngtcaac tttatcagag agaaatcaga aacctttgaa gtattcaaag 180
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240
atggcagaga atttgaaaac agcaggttca ctgaattctg cacatctgaa ggcactcactc 300
atgagttctc tgcagccatt acaccacaac agaatgggat agttgagagg aaaaacagga 360
ctttgcaaga ggctgctagg gtcatgcttc atgccaaga acttccttat aatc 414

<210> 18707
<211> 465
<212> DNA
<213> Glycine max

<400> 18707

tatccttatg gctggcctcc ggacttcacc cccggttcta ccccggttta ttttaagccaa 60

gccctactt tcgaggggca actccacact tatgaagact atcccgggca agacaatgag 120
 gaaggagata cccatcttag cccctgctc cacctcaaag atccgtcccc ccatgaacta 180
 cccaaccaa acatagtccg ccatatcccg acttcacca caccgtaaa agaactctgtt 240
 cccttcgtgg aagataaggg aaagattgag gtgcttgaag agaggttgag agcagtcgag 300
 ggctcggca attacccatt ctggattta gcggatttat gtctcgttcc caacatcgtc 360
 atccctccca agttcaaagt accggacttt gataagtaca aagggacgac atgtccgaag 420
 gggcatcttc ggatgtatatt atcgaaagat ggaggcgtat tctgc 465

<210> 18708
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18708

tgtttgcaga ggtcgggtggc agactcaaga ataatggaat gtgtagtggc tttgtctcat 60
 acctccatta cacttcattt gtacctgagc ttgcttccct atttttatta attttgttca 120
 tgtttatgtg tgagttgaat cttccccgcg aggatcaaaa gataaaaaaa attgtaaata 180
 taagaatcaa aatgaatgtc ttaaaactata gggactaaaa aaaattatca caactataag 240
 gactaaaagg gtaattaaat caaaattaaa taaactagag caaaataatg gtggtgtggt 300
 tagacacttt taatcctaatt tgtctccttg tagacatata tacctctaca tatgtgntgc 360
 atttgcaacc accaccatta gtggaaaaaa antttaaatg caaaccttc ta 412

<210> 18709
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18709

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 gaagagagaa caatttagag agtgatcgaa gactttcaaa tggatttcca ctgaatttat 120
 tcatagagag atcgagatat cttaatgatg aaagttttcc aaatgatcta ggaagagcac 180
 caccaattga gttgttgga aaaagtaacg tgtcaatatt tttaaatgcc ccaatatgat 240

ctgtcagatt gcctgaaagt cgtgaactct gaactgcaag tcttgtgagt ccatgggaaa 300
tacaaggagc aagaatcttct aaaagtccat taacctgttg gttgagtttg agatatgata 360
aatctatcac ccttaagttg cagagattac ccanagaagt tggaatgttt ccttcaagtt 420
gattatgtga taaatcaagt tcaacaagag 450

<210> 18710
<211> 406
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18710

agcttttagac aacttggttg aatcgattac gacaactctg taatcaatta aaatagagag 60
tttttgctcc ggaagaaact ttttctaact taaaaagttt tcttctcact aacctgatg 120
atgaataata ctatgatgca acacacaaaa taacaaccaa tacaaatgcc actcaaggga 180
gttaggcatg taaaagttaa aacatcttca ataacttctt caagctttcc ttgagagatt 240
gttcacaatg ttgctcatgt catgttgctc cccctatctc taataactag tgctcccat 300
taagacacat tgngtctcan aaacggctta tccaaaaatt cttctaacca ttntntaagc 360
tcggctaact ctataagaga catcctataa ggggctatga atatgg 406

<210> 18711
<211> 449
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18711

tcaccactaa gagaatgaga atgagagagg gagtaagtgg catggaaaat tgaaggaaga 60
aaggagagaga agtggaactt tgaagtgtat ctcaagatt tctcattcat aaaagttaca 120
aaaagtggta cacatgcttc tatttatagc ctaggtagct tccttgacaa gcttccttgg 180
gaagctagtg ttacacctgt tcaatagcta agctcacccc catgccaaaa tacatgaagg 240
aagaaagctt ccttgagaag cttccttggg aagaaagtgt tacaccctc caatagctaa 300
gctcaccccc atgggaacac gcacccctcc aatagctaag ctacaccccc aaaatacatg 360
aaaatacaaa aaaaagtcca tactattgag actactcana atgccctana atacaaggct 420

aaaatcctat actaccaagg tacccttaa

449

<210> 18712
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18712

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cagatctaac aaattgggct atgggtcaaa ccgatttggg tcgtctgggc ccaataaggg 120
agggatttct gattgggtgt tagtgaaggg gagtaaggaa gcaacaccca gaacaaatgg 180
acctggggccc cgtggtgaaa ggccgggtca acccgaaaga agaaatgggc caagagatag 240
gggatttacc cagctttctt acagcgagat catggagagg cgaaggataa atcagtgttt 300
caaatgcgcc ggtccgttca gttcaacaca ccaatgtcct gacaaaaact tgcgattgct 360
aatcaccg 368

<210> 18713
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18713

tgtgtctttg tttttatatt ttagaagggg attttatttt atttttgaat acgaataaca 60
taaaatttgc acgaatttaa acttaaaatc attccaaaca taaaaataac attacattaa 120
cttcaaactt caaacattaa acattacatt aacttaaata gagttgaaag aaataaaatt 180
agcatcaaat acgacaacta agtgatgcta attttgcgac aaggacatat tatgttccat 240
ttcgattaca tgcttactaa aaacaactaa aatttctatt ggcccaattt ttttccagta 300
gttagaatgc actaacacct tcaactgtca tcgttggttt cagttcaata atttcgaatt 360
tgataattnt atctgaatac tcatagtgcg ttggttgctg aaaaaacaat cgccttaccg 420
tttgtgtatc atgaatatca t 441

<210> 18714
<211> 409

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18714

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accgattgat aaatgagaaa gagagctttc ttgtctctct ttcttgactc cttcaacgtc 120
tcctttacac cttggccttag caaggcttca tcttgctcct caaagtcatt ctctacgata 180
tcccacacat cttgagctcc tagtagcgcc ttcattcttga tactccaatt atcatagttg 240
ttctttgtga gcatcggcat ttggaaagga aaacctccat tcgccatctt ttgaggatct 300
tgaagctctg ataccactnt gttggaaata aggctntnta tgtttaggaa aagtgtttag 360
gaatattgga gactntgaat agaaacttga taggaaggag aattcttta 409

<210> 18715
<211> 464
<212> DNA
<213> Glycine max

<400> 18715

actcagcttt aagaggcttt ttgaaagtag atcctttttt ccacatccct cttttaacta 60
aattaacctc cttaaaaata attacggatg aaaataacgc aacaagtaat caaacatcaa 120
acataattac taataatata tagatatata tatcagggtg ttacacatac attttacatc 180
caagacaaag tgtagatttc tatgtgtaac tgatgctctt ggcatattcaa tctaacaccc 240
taagttgttc acaccttcca aatcatgggt atacatgcac aaactcattt gacaataaca 300
catgtaatgg tcattgatgc atttcaccga acagttggtg ggcgcatgtt taaacatgta 360
aaacatgagg gatggagaat aatatgacat gcacatgcat agtacgagca aaggtaggca 420
tatggtcac ccttacagca ccaatcaaac aatcaaagca tgga 464

<210> 18716
<211> 154
<212> DNA
<213> Glycine max

<400> 18716

agcttggaca taagagaact agtctgtcac tcattagaga atttttggat gctcatcata 60

tgcattagcc gattaatgga ctaagcatga tgataaacct atctcatgtg tatccattga 120
ctatgctact cattctcatg catacatact gtat 154

<210> 18717
<211> 431
<212> DNA
<213> Glycine max

<400> 18717

tgtgtattcc tgcattctac taatatatgg tattgtttat tgcttggcct gagaataaca 60
atcggttgac cacaacagcg ctgggggagg caacggacaa tgggtctttca aataaacctg 120
ctgtacatga acaaacatta tatcatgcgc tgaccgtgcc aaacgaacaa tcgaagtcac 180
tgcataattg gtacactaac tatattgaat gtacctgaac aaaatgatat acaaacacgt 240
gaccgactca tatgatgcgg tggccacaag agtcacgagg tggttgactt gtaataggga 300
aaaatgatat gattttagtg tgggacaacg atacaaggat tacgtgataa cgtgaagcat 360
tcacatatac gatgtctgat atatccatac actatgacac actaacctga atgaaccaca 420
catacgcatg t 431

<210> 18718
<211> 399
<212> DNA
<213> Glycine max

<400> 18718

agcttgggag gattgatggg gaccgggtgt tgagagaaac aaggatatgg gctacgtggg 60
agtacgtgag ctcaattgga ggtgggcaac aggggatggg gggtttatgc gcgctttgtg 120
gatgtggaaa acttgttgtg caccatcgcc cgaccgccac ctagtaccac atgtgatggg 180
taccataaa tcctacaagt ttgagatgag caagtgtaga aggggtgaact tcctgctttt 240
aatcgttgac cacagagtgg tacctggaga tatgtcgagg tggtcaggag acctgttgga 300
cgtcacgtgg ggtgctattg cccaaaacca agcttgacca atcccgaccc aaccggggca 360
tagtcagtca gtgagaacct gtgatgtacc taaacaggc 399

<210> 18719
<211> 462
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18719

aaaactcccg ctnttatcta gccaaagatca tacaaaagtg ttactacata tcctaacggg 60
ttctaattat atggggccatc aaatctatca tgtgttgacg gtaattgatt agcccgtgaa 120
tttcctcggg gggtgtacac acttcagcga tggcctttgc tttgactagt agtcgcggga 180
ggctcttgact tccattcaag gtcaaggcga acctatccat ccacatgggc gcttcttgat 240
gtaatgcac aatcacccctc cctcttgctt ccttctcggc gtacgcttgc acaaaatctt 300
ctactagctt ttgttcatgg gtcaaagact ggtttaactc ttcttgtac tgccctatga 360
tagctagcat gctttgctcc atgggtttcca agtgttgagc ctaactcctg ttggatctag 420
agcaagcagc taactcttctc tttaagatca tgccatgcac cc 462

<210> 18720

<211> 405

<212> DNA

<213> Glycine max

<400> 18720

agcttatgac tcttggcaat ttctttaaaa ctaatcactt aaaaaagttg tgacttttga 60
aaaaatcttc agaaacaagt cacttgaaga attgtgactt ttggaaatgt atttttcgaa 120
atcagtcatt ggtaatcgaa taccatttag gtgtaatcga ttacacatca acaaatgtga 180
cttttcattt tgaattttga aaatcaaaat gtttagaaac actggtaatc aattacaagt 240
attgtgtaat cgtttacaca agtttgaaat gatttgaaac tgttgaaatt tgaaatctaa 300
cgttttaaaa cacgtgtaat cgattactat tatctggtaa tcgattacca gagagtaaaa 360
ctctgtggta atgatttgtg gaaaacttct tgcgctactc aatgt 405

<210> 18721

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18721

tctagccaaa tggacttacc ttgaattaat tcctttgatt tcccttttga gccttggttc 60

cctttccttg ttttgaagct cactacaagc cttaagtga aaacatgat attaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttggtt 180
 cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
 acattgtata ttgggttaaat gttggacatg ctgaatgaaa tgttggttct caaaggctaa 300
 aaaaaaaaa aaaaaaaaa attcgaaaa aaattcggaa agaaaaaaaa aaagaaaagc 360
 aataaagttg agtgaataag atcttaaatg gcacaagaat gatgaaactc ttggttctac 420
 tcttcatgtn ntaattttat cccttctt 448

<210> 18722
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18722

agcttattgt ttgtttccat gttcaaatca aattagtgtt ttgaagggtg ttctttttatc 60
 aagtccatgc aaaaacatct aaattcattt gggtatttgg gaaatccatt cattgcttcc 120
 attctcaatg ttttaaaaaa aaaatcactt tgttggtgtc tgatcatcaa aagtaagttt 180
 caaaaacatt gggtgttgat tctttccaaa gaatgttatg tccaagaaaa atttcatgat 240
 taagtcccaa aaagagttat atataatcta caactacact aacgtaacaa aatatatcaa 300
 agcacgtgta aatcagacaa aaagacaatc tcgcataagt tttcaagcaa aaaatccaaa 360
 acaataaata agatactaaa gtactaaaaa ttntagtaca aagcgataaa taaa 414

<210> 18723
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18723

ntagccgctn taaactctgc atttagttca tcatcttggg ttaagacttt tactcctagg 60
 ccatctggaa gaggtcaagg atcacaaaga gctgcagcag tggctgctct ttcacaagtt 120
 cttacggccg aaaagaaaaa atcacctgat ggttctcctg ttgctagcag gagtcctatc 180
 actcaaggta gcgctactgg taagaaaaac agttcttgtc taaatatgat gttgcattcc 240

cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat attaccatat 120
ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
acattgtata ttgggttaa atgtggacatg ctgaatgaaa tgttgtttct caaaggctaa 300
aaaaaaaaa aaaaaaaaaa attcgaaaaa aaattcggaa agaaaaaaaa aaagaaaagc 360
aataaagttg agtgaataag atcttaa atg gcacaagaat gatgaaactc ttggttctac 420
tcttcatgtn ntaattttat cccttctt 448

<210> 18722
<211> 414
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18722

agcttattgt ttgtttccat gttcaaatca aattagtgtt ttgaagggtt ttcttttattc 60
aagtcctatgc aaaaacatct aaattcattt gggtatttgg gaaatccatt cattgcttcc 120
attctcaatg ttttaaaaaa aaaatcactt tgttggtgttc tgatcatcaa aagtaagttt 180
caaaaacatt gggtgttgat tctttccaaa gaatgttatg tccaagaaaa atttcatgat 240
taagtcccaa aaagagttat atataatcta caactacact aacgtaacaa aatatatcaa 300
agcacgtgta aatcagacaa aaagacaatc tcgcataagt tttcaagcaa aaaatccaaa 360
acaataaata agatactaaa gtactaaaaa ttntagtaga aagcgataaa taaa 414

<210> 18723
<211> 452
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18723

ntagccgctn taaactctgc atttagttca tcatcttggg ttaagacttt tactcctagg 60
ccatctggaa gaggtcaagg atcacaaaga gctgcagcag tggctgctct ttcacaagtt 120
cttacggccg aaaagaaaaa atcacctgat gggtctcctg ttgctagcag gagtcctatc 180
actcaaggta gcgctactgg taagaaaaac agttcttgtc taaatatgat gttgcattcc 240

ctgaatacaa tgggttggct ggggtgaata ttttactaca ccctattact ttggtttata 300
 cttttgaaat ttgaataatt aatataatcc tttttgttta gttctaatta tttgatattt 360
 tttaatcata ataatagata ctgctagtaa actactaaga gtggagctct aagcgctaca 420
 ttgatgtact actaaggggt ttattgagat tc 452

<210> 18724
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18724

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 gactaaatca gccttagatg caaggggttg gcgctaagt ctcaagactc gtggcttagc 120
 acatgaacag agatgcgctt agcgcgaggc ttgcgcttag cagaaggact gctttttttc 180
 agaaaatatt ttctgagtta tttttcagtc ctttttccat gaaattgaaa cccttatggt 240
 aagcattcaa agataggctg atatactcct atgtacagct tacatagcaa gttcctaattg 300
 atcaaattgca tganaaacia acacaacana gattaaaact aggttgcttc ccaggaagcg 360
 cttctntaac gttattagct tgatgctttt acctctctgg gaaatctcat g 411

<210> 18725
 <211> 463
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18725

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 tgcaacaaga aggttttagac tatactgaag tatttgctct agtagcaaga ttggagactg 120
 taagattgat tgtttccctg gctagctgga gaaattggaa actgtggcta ctaaattgtca 180
 agtcagcctt tctaaatggg ccacttgatg aagaagtttt tgtggtacaa cctcctggct 240
 tcatatgtaa aggtaaagaa caaaaggttt tgagactgaa gaaggccttg tatggcttga 300
 aacaagcacc tagggcatgg aacaaaagga ttgattcctt tctcactggg tttggctttc 360
 agaaatgctc agttgagcat ggtgtgtata tcanaacagt aagtgaact aagattgtgg 420

tgctatactt agatgatgat gatttactca tcaactgatag tag

463

<210> 18726
<211> 395
<212> DNA
<213> Glycine max

<400> 18726

agcttctgag ggtgcctatt gtgtgctgct ttttttttat gcaaattccc ttacgaatca 60
tccaaattaa ggacttatca taacttgaca agtgtaccaa atttgtcaca agtagtaagg 120
gactctgctt gtacttggat taatgcaaat caaattttaa agcaatggat aaagaattta 180
aaataaagat aaagaaatat attagataag ataaagattt aaagatgaaa ataaaagatt 240
taaattaaaa gatgacaaag atagaagata aagaaaataa gaaagataaa agattaagat 300
aaagataaga taaaaataga aaatatgata aaataagaat gtgataaggt tgggacctga 360
cctgccttgt ttgcctagga tgtatgagtt tatga 395

<210> 18727
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18727

ttcggctgct gccaaacctt tcaatccagg aatgttgctc ttgtctcacc atctaaattc 60
agcttccttc acaagcatgt atgatacaga tgtagtcaa ggcatgcacg tggagcctgt 120
gcttccccct gctgttgcta gggtccttg tgggcctaga tcacctctgt attatagaac 180
caactatact tttcgcata aacatggttc tactaaaggt caaacctcta tcaaagaaag 240
aagtggattt gggctctcaa gaataatgaa tccgcatacg ccagagttaa ttcccagaag 300
tgcttctcaa atagaagcca aggatgccaa ttcaaatggt tccaatgagc ataacccttt 360
gtctgacgaa ggcatgccag aaaanaacaa gctagatgaa aattttgttg aaatcaaggg 420
gagctccaca aaatacagta tttctgaatc tgagaagt 458

<210> 18728
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 18728

agcttttcac tctatctatt tttattaaaa ctcacataag acgataatgt gtatctatctt 60
 taagaaaaaa tgaaattttt aaaaataacta ttcaaccttc cttgtgttat ttgtctatgc 120
 acaaataatg taaggacata aatagctcac tagaaatgaa gcttccattt gaacttcatt 180
 tgaaatatat aatttgtctt taaatacaaa gaaatcacgt tttctcaaaa attaataaat 240
 aagtaaaaat gaaaatgaca aaacaatctt gtccctttt aattnttctt tctccttttc 300
 accttttcac taaatcatgt atttaattaa tataattaa tatgtaataa aaataaaggc 360
 atcctanaat aaaggcttag taataatcac tttagatgca cttctg 406

<210> 18729
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18729

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 gtaatacagc ccgaatctat tcttctggaa acatcccata tagctaacga gggtagacct 120
 tatcagcaac catcttgatg tcagttgccc tagatatatg tagactagga gggtagtca 180
 tggtttaatc acacaattac atttggtcat gtaactggca tcagtcttat aattggcgctc 240
 gacaggtgca ccttctttt gaattgaacc ttaggatgtt ccacttcttg caaagggttc 300
 ttgctttgtt tgccaaatag ttcttgagag atactacatt gggagttctt ctggctcttt 360
 ntttcttcat attgcaccaa gcttatgaag gagtcacctt agtggagggt caaaccact 420
 attgagtgcc aagtgccagt cactgaggag gcactctgaa aacaaat 467

<210> 18730
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 18730

agtttgtggc cttgttagtt ctgggtgctc agtgagggtg gtcattttct tttattttgc 60
 tgtataatat ggccaacaac agaagccaaa atgctaggaa aggaaatcct aatgaaattg 120

ctatgactga actgattgtg tggaatgggg tatatatagt tttgtaatca agaactaagc 180
 acttgcatat aataataata ataatttttt ttttgctaag gcaactagtc ccctggcttc 240
 cattttgttg gggttacaac cttgaagttt gaggactttt gccatgactt catcaccttc 300
 aacacttcat ccatgttcct cctagtagtt gcaggtagag aaatctagct tgatctacaa 360
 cactcaccaa ttaatatggt agcctcacta ctgaa 395

<210> 18731
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18731

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 aaattcttct catgactcaa caaccctccc catcaaaact ttccctctct tccttcattt 120
 tctattcaaa aaaccttcat cgttaccacc actagcggat gcaccttcta tggtgtggga 180
 gcaattaccc caccagattt ttttttattt gttaatgtat ataaaaaaaaa ttccctcata 240
 aaaaattata tattgcccc a ttgaattttt tttaactcac aaacaaacat aagacattca 300
 atacaaaaat tacatgctca agcccaaact atttaatcca atttcattat tggtatagta 360
 acacaaaaaa aaacaccac acactacacg gagcacactg tttcatgtaa catctaanaa 420
 ataatccaat aattatttag ataaagaata tctaa 455

<210> 18732
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 18732

ttcttggaatt tccttttagt agggaatcta tccttcctaa gatggagcca aaccagtc 60
 ccctcattaa gaactagctc ttttcttct ctattgcctt tagttgaata cacctttgtt 120
 tggttctcta tttggttctt aacctctca tgcattctt ttacaaattc tgacctagat 180
 tcccttctt tatgtataaa agaagtgtcc agtgggaggg gaatgaggtc taacggtgtt 240
 aggggattaa acccatagac aacctcaaaa ggggactgct tgggtggttct atgaaccccc 300

ctgtttagg caaattctac atgaggaaga tactcatccc aagacttatg gttgcctttc 360
agaagagccc ttataagggc ggataaagac ctattcacta cc 402

<210> 18733
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18733

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tatatgaaga gaaagaagct cgcaaagaga ggtgagttta tgaaaaagta gaatttgaca 120
cttaatgata tactcaaaaa ttagaatgta aattaactat gagaatgaag agaagttttc 180
aattcttaag tctcattcat attcttcctt atattaaatt gtgaatgata ccaaattggt 240
atctcctacc tttatttcag agatgctaaa aatatttcac tggaaataca aaaggagaaa 300
ggaagatgtg gagttatcaa caatatttga tttttcaacc atctctaag ctacagatca 360
atcttcaccc agtaaaaagt taggagaagg tggctntgga ccagtataca aggtagttaa 420
attntacatc aaataagctt c 441

<210> 18734
<211> 397
<212> DNA
<213> Glycine max

<400> 18734

tagttttacaa aaacagggtc tgaggatctt gttgaccta ccttgatcg ttatgtggtt 60
ggtgctctac attatgctac tatcacacat ccaaaaatta gtttctctga caataaagtt 120
ttccaattta tgagtcagcc aacagaacag gattgggttg ctgtcaagag aatccccggg 180
tatctaaagg gcacacttca ttttgggctg aaactggaac ccaatttttc taaaaagcac 240
tactctgttc atgccttttg cgatgctgac tgggcttcag accttgatga tcgaagctct 300
acctctgggg ctgttgtgat cttacgcca aatcttgtct cttggtgatc caaacagcaa 360
tctgttgtgg ccaggtccag tactgatgca gagtaca 397

<210> 18735
<211> 453

<212> DNA
<213> Glycine max

<400> 18735

gtcatcctat ccaaaatata caatgcttcc ttctacttga ctctctctta cagaaacttt 60
gaatgacaga tgtataagtg acaacatttg gagtacaaac tccacctttc tccatttcat 120
ccaacaattg caatgctctt tccatagacc cagacctaca aaagccatct aaaatggccg 180
ataaaatcac caaattgggc gaacatccat gtagtctcat aaccttaagc acagagtagg 240
cctcctcaga tcgacccgcg ttagagaatc cctcaactat tgccatatac gtaataagat 300
caggacaaaag gccattggaa ctcatctcac tggccaactt cagagccggt tcaatgtcac 360
ccttcttgca acacaacctt ataaccagat tatacatgac agtgtcagcg tggaggttga 420
aagtgtcctc catcttcttc aacaccaca gag 453

<210> 18736
<211> 399
<212> DNA
<213> Glycine max

<400> 18736

tttttgtatt gtatatagca tgtgcctacc aaagaagata atgggagagt tttcttatgc 60
gtattgtact atccagcttg acctttccaa gaaagggact ttggcatttg gtaatttttt 120
ggtttcatta ttcaaattta acttattcct cattgctttg aaagaaaagc aggtgaatcc 180
aattggctaa ggttcttata cacttccaca tgtggaaacg cggcaaatac acattgaatg 240
cacaaaaagt tgattgaatg tgatgtgtgg aaaaaaagac aaaacgaata cttaaaatat 300
aaatactcat aaaatttaat gtcagaatat atgaaattaa agataacggt gatatcacac 360
aataatgatg tttggtacat ataagtaata aaatgtgct 399

<210> 18737
<211> 453
<212> DNA
<213> Glycine max

<400> 18737

actcagcttt tatgtaatta tcggattcaa gaagaactct atagttttat acattttaat 60
tgaaattctg gtaacattta aataacatac aagttcagta gaatttctcc aagcaaatga 120

atattctaaa gtatattcag agaaatcttg agtaaaaaaac tgctacttaa attgtagtgt 180
aaagtttttt aaccactat ctttgttcat tggcaactag tataaaaatc attcacatac 240
ttaaaccaat atcttaaaga agttccaagt aaacagtcta taaggagggt tgagtaatga 300
tgacacgatg cagcagacgc aaggcctata aaaaaatgca gtaagcgtaa gaataattta 360
ctacaaaaca tatgaagctt actagaatgt taaaaacaga accgcagAAC atctaggagg 420
aggttgtaag aaagagcatg atgaagagag tca 453

<210> 18738
<211> 255
<212> DNA
<213> Glycine max

<400> 18738

tgtttacact gacacgtact gaggattata ttgatgcttc cttgcgtgga tatgtgggtc 60
ctgctataca ttatgtact atcacacact gaaactttat tctctcagaa cgtatagcat 120
ttcaaattat gagtcggcca tcagaacacg attgacatgt tgtacagaga aagcccctgt 180
acgttaaggg cacactagat tttgggctga aactggatca cagattttac acgagcacta 240
ctctgtgcta tgctt 255

<210> 18739
<211> 500
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18739

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gagactacgg gcagactgga catgcctctc ttacagacac atgggtgtgac agatgtatga 120
gtgacagctt ttggtgtccg cactccacat ttgtccattt gatcttccga actccgatgc 180
tctgtccata aaccgcgacc tactatagcc atctaataatg gtcgataaga tcaccagaga 240
gcgcgaacat ccacgtagtc tcataacctt atgcgcagag tacgcctgct gagatcgacc 300
cgcgttatat gatcccgcca ctatggccat atacgtcgta agaccacgac gacggccgtg 360
ctaactcatc tcaactggctg cctgatgagc cgcacatcagt acgcccttct tgcgaccaac 420

cttgtaccag acatacatga tactgcagag gagagttgaa gtgtgctcat ttgctcatca 480
cgccagagcc atattagcag 500

<210> 18740
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18740

agcttcatgt cattcaaaag agactacgtt gacctaaatg aagactgaac atgcattgtt 60
tatctaattg tattcattat gcgatataat ttgttataag ccattaaagg ataattatta 120
agtactcgtt gcattaagaa aaaaattagt tggtgcaacc aaaatcaatt acgcatgtat 180
gatacatcgt tgtcataatt gacaacacat aatgatatgc atgcgtatta aagtttgagc 240
gtgacacgac attgactgac ttgacaacac attctgatgc acgacattgg tttagtagga 300
aacataaaca cgaaacatat tcacgcatgt tcttttgtaa aaaaatgtga agcaatctgt 360
cagtgagaac catgtatata tatgagacac ggaanatgct a 401

<210> 18741
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18741

nttaattaat taagaatgca tatatgatta ttgtttgtgt agcctaattgt ctctgtttgg 60
tttggttttt ttctttcaat ttttttatgg aaaacactaa aaataaattt tattgtttta 120
gttgtctctg cttcctataa aaacttttaa aaatagaaaa taaaataaaa taaaaattga 180
agtaatattt tataattaaa tataaaccag cacctggaaa attttgttat gtagaaataa 240
ggactattga atatatagca cttgcctctc acttgctttg gactctttgt tggaccagtg 300
atgtccatgc catgacttcc cacatagtaa agttctgcca attntacaaa gttatatacc 360
tganaaaaaat aaatcagaaa gaactccaat taaatctctc aagaaaagaa taaagaatca 420
tntaatcact tccatgtca 439

<210> 18742

<211> 401
 <212> DNA
 <213> Glycine max

 <400> 18742

 agcttgcaga caaatcttcg ttctgggtta atcgattacc ctatttccat aattaattac 60
 acaattctat tgagaccatg tctatttctt gggctctctgc tttaatcaat tatgagggta 120
 tagtaattta ttacattggt cttgaaagta ttttcaaaag tgattaagaa tagtttaacc 180
 gattaaatca agaatccaat caatttacat tgttcttgaa tgcttttcat gtttggggaa 240
 gaacacttta atcgctttta atgagaatct aatcaattac ttcttcgaga taatcgatta 300
 cattggcaat tcaattgatt actagcgaat ataactgtgt cctttctata tagccacctt 360
 gtgttcacac tttcaacaat gattaaagaa cgagctttca c 401

<210> 18743
 <211> 425
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18743

 tcttatccaa ggcaattctt ggtggtgaag ctccctttttt cttggcttat tccctagtgg 60
 atggtgcctc ccctatcctc ttctcctttg ccttccgctg catctccatg gtgaaaaatc 120
 accattgaag gacctcattg aagctcaaag atccagcctc catagaagct ccacaagcaa 180
 gcttccatca agtggttaata agagcacaag agcttcaagt aggtgctcct taaacctcca 240
 ttaatttttt ttctttacct tctcttccat tggtgtttct tcatttttct ccatgtatct 300
 cctcacatgt cttgttctaa atgatgttaa catgattctt tagagtttcc accgattaaa 360
 cttgctatag aagctagatt tgattntcta tgggtcaaatt ntcttggtct tggtcttgaa 420
 ccatg 425

<210> 18744
 <211> 415
 <212> DNA
 <213> Glycine max

 <400> 18744

 agctttgatg gtgtcgagaa gaaatcacat gtttgtcatc atcaaaaagg gggagaatgt 60

gaatgtatgt atacatgatt ttgatgatgt ctaaagaaga atcaaacaag gctcattttg 120
 cttcaagatt aatacaagat tgtttcaaca aacaaagcct tgattcaaga tttcttcaag 180
 atcaagcctt gcctcaaaat gtagagattt caagtcattcc aaggcacatg taatcgatta 240
 ccaatacatg taatcgatta ccaaggcaca tgaaagtgtg taatcgatta cacatcatat 300
 gtaatcgatt accatagact ctgaacgttg ggaattcaaa ttttaaataga agagtcacaa 360
 ctgttcaaga taaacaattg tgtaatcgat tacactaatt ctgtaatcga ttacc 415

<210> 18745
 <211> 327
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18745

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 ccaggaagac ccagagagac attttttgtt agcaaggaaa ggggtggctg gtgaggccgg 120
 agaaccaccc atatgcccc gcgagggagg gaaataaata ctaggggaaa agaataagcg 180
 gaaaatagat caacataaaa tttggaacaa aagggaaaag gggacagata aatggagggc 240
 aaggcacagc caaaggcttt acgaaaacgg atgaaggaac ttaaaagtga aacaacatca 300
 taaaagagaa atatgaggcg agagggc 327

<210> 18746
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18746

agctttaagt tttgatttta gttttgatgt gcctcagttg ataagtcct tcgaaaatat 60
 ctatgatcaat attgagaata tttataaatt tcttgaatca aattcaatta gttaaattatt 120
 tagttttgat tcaagaaata atgaaagttt tattataggc ccttgaaaat agtttgagga 180
 ttttgaaaat ttttaattgat ctaactaacc accattttgg atccaggcat ttttgtttaa 240
 caataatata tatataattt attatttagc agtagtaact agtaaatacta tgtttaacgt 300
 tggctctact attcaagtta agtttgttta tttagtaatc ataaatatat tttctttgat 360

ccatgaatga taattataat gtatataaat tanatacgta aataattaga t 411

<210> 18747
<211> 456
<212> DNA
<213> Glycine max

<400> 18747

actaagcttc atgtttctgac acatcttctt gctctaattt tctaatactt gtccttaaaa 60
ccaaaacaag aacccaaact gacaaattcc aaaaggaaag aaaaaaacat tgaagttaac 120
tataattcaa cctatacgaa gagaaaacat gtaatttgct ctaacaaaa atgctataca 180
acatgaatgc atcaccaagt tacaagcaaa catttttata atgctctaatt cctataaaat 240
acgaataagc tgattaggtg aaatttagca gccgattgga ctgctgcctt tagtttgaga 300
caaatgacaa tagtatcgaa tcttttcagt aaaattgtta gtgactatgg tacaattcaa 360
gcataaaaac gtcgtttccg ttgtttataa gtcatgtcat actttttataa ttccatggcc 420
atctatgtcg cctaccttca tttcatccag ccatat 456

<210> 18748
<211> 333
<212> DNA
<213> Glycine max

<400> 18748

agtttgcccc cttctttcat aatttacgga aaagttacgg aagtatataa gactagcttt 60
ccttcttttt tctcttctt accaccata ttaagagaaa tatgcttatt gatggatatg 120
ggaattgtac cgaagcacta cgggtgttcc ggaagccccg aaagccatt gtgtaacaaa 180
acgggggagg cggttgccac cttaagcaag acaatgccca tagacctggc ccgattttga 240
agattactat ttgcaccccc cattctacat aatacacacc ctttgcccct attttcata 300
acattacgga acctcacgaa ttacgtatcg ata 333

<210> 18749
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18749

cataaccaaa caagaccgcc caccacaaca cggaacnaat aaccntncca aggggagnat 60

gagacaacga gacaccgaaa ccgcgannaa aaaacccgga gacaaaagca aacaggggaa 120

aacacataac agcagagccc caaggagggg cgaccaaaaca aacacaagcc cacgaagaac 180

acaagggaaa aacacacaga agacccgcag agcaaaagaa cacacccaac agacacacaa 240

caaaaccaga aggggacaaa agacaaacag aagaagnggc caaaaccaca aaaaacagaa 300

aaacagaagg agaagaaaag aaagaaacca gaaaaccaca gaagggaaaa gaggaagaa 360

cgacaagagc aagagaacag acaaaacaga aaacaccaag acaaaaccga caacacgaaa 420

aaacgggaac aaagccccc 440

<210> 18750

<211> 307

<212> DNA

<213> Glycine max

<400> 18750

agcttgtgat atatttacta tatacgtgtg agacctcgtt tatccctacc tgttcaaaaa 60

tgtgataaat cactcctcat gtgttgccca tgtctggaac atgtgatgat cttaaacttt 120

gcgcacgtga gagcaaatga ctaggtgaat cactttaaga aaccttgtga tggaagactc 180

tgagacacaa taatctgata ggatgtaaca ttggaacaag agcacctatc gtaactcgca 240

tgacgtatca aacatgccat tcgactttat ttgatagacc cgaacagact agctctaagg 300

cacaaac 307

<210> 18751

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18751

aagaagatct ccaggatgtg gatcaataat taacaactat ttcgaaagtg caaattaggt 60

tatgagagcc ttcttttaggg ttctcaaagc gtattagagg cttcttttca atggctacta 120

gatgtagtta agtctttaca gaactgagtg aatgaactaa caatattaga aaattacagg 180

acacaagaaa tacctccatt attatcagtt aatggtacaa gagtcttcaa gtgcacatgc 240

agtgcataca ataatcaaaa tcaagacaag cacaaaaacat gcaaaaagtg cacaacata 300
 tacaataaaa aaaaacatta aaaaacccaa aaacagcctg tacagtgaag aggtgttctc 360
 gctctccaaa cctccaaaca gcgaatcaag caagcaatng attggtagtg gcggatgaac 420
 ctgatttcaa aattgattgg tat 443

<210> 18752
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18752

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 gaccttgact tgatagaact tatttttaag tgaaggcatt tgaattgatc ccatgtttta 120
 ctaaagtga caaaaatcgg tgcgaatcaa aactccgaca tcaatcatga gtggaatgga 180
 tgaatgcatg aagaaatgca tatgacacaa atgcaattta tgaatgcggg agcctgggaa 240
 attatctctt tcttagatac aacgtcttgt ggtagcacag tgcccgacgt atgtatttaa 300
 gaaggtgaca cagacctcc attggtttgc caaagagagg ggatcaagac anaaccctg 360
 catgatgcat atgcgatagg cgcaacacgg gaatgtacag atgac 405

<210> 18753
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18753

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 cgccaaacca cttagcagtt tggtgaataa agatgttgct attttgttta atgaagagt 120
 tatggatgca tttaatgatt tgaacaccag attagtgtct gctccagtaa ttatagcacc 180
 aaattggggg caagaatttg agctgatgtg tgatgcaagt gattatgcca tatgtgcagt 240
 gcttgacaaa aggaaggga aaaattttta tgctatatac tacgccaaca tgggttctaaa 300
 tgatgcacaa gtgaactatt ctaccacaga aaaagaaatg ctggtaattg tttatgcact 360
 tgtaaagttc atatcttata tggtaggctc aagagttatc atctacactg atcacgcagc 420

tattacatat ttgctc

436

<210> 18754

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18754

attattatgt atatgtgatt tattgcctat gcaaacattt tagaggttac atttttcact 60

ttttgagtcc ataaaaaaat attttaaata ttatactttt ttggataata tataaaataa 120

cattagagaa acttaatatc atggcttaat aacactaaag tttaaaataa cacattttta 180

taggtcttta aactcggag tatacataaa aaaattataa tacttagatc taagttacaa 240

caatacacaa taatattcat taaaaataac aatttaaata tacgataata acgaaaatga 300

caaatatttg agatgatttt ttttaaggaaa aaaccaaatt gacattgtaa ttgatacaag 360

agactaaatc gaactntgtg cattatgaaa cgcgcattgga caaag 405

<210> 18755

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18755

tttatntga tgtagatta aattgatcgt tttttctgtt ttttttttaa cactaacatt 60

aatgtgtggc aaatgttcat ttgataatg gcattctctc actatagggtg atcaagttag 120

tgtaataaat tgacggagat attaatatga tcttaatat aataccttga aggattaaag 180

caaaatTTTT aaacttggat aatcaaatta aaccaaaaaa atgaaggtaa aaattatatc 240

ttagccatgt tatgtcatgc atgtaaaatg taatagaaaa acgatgggga ggggtgtttt 300

ggagggatga gaagaaatgg ttgatgggga ccaaagtgg gttctggggg aacattntgc 360

gtttctactg tgccaagacg tgggtggagg aattttgggg aattaatgaa cagcaggggt 420

ggggccacct atctgtcatc tttatgta 448

<210> 18756

<211> 338

<212> DNA
<213> Glycine max

<400> 18756

atTTTTggag atatcaagtg ccaacacgac atcttctttt gaccagacat catctggctc 60
caattcatta gcgggcctaa cttcagtgac caacatcatg ggatgtaccc agcctttgat 120
gaccgctttc caagttctgc tatccagaga tctgaggaag gccaccatcc ttgctatcca 180
gtattcataa caggatccat ccagaataga gggctgttaa actgatccac cttctatcac 240
catgttcaac agacaagatc tccctagatc tcactcacag ataccgagtg ccacgactga 300
taccaatcga aattatgata ccaaagccac atgacgta 338

<210> 18757
<211> 380
<212> DNA
<213> Glycine max

<400> 18757

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atcttcatgc ctcttaagtg catatgtcca aatctttgat gccatatatt gacttcatct 120
tctttggaga ctagacatgt ggaggagtaa ctggtttctt gaggtgtcca tatgtaacag 180
ttgtcctttg atctgctgcc cttcattatg acttcaactct tctaatttgt caccaagcat 240
tctgactttg tgacagttac attgagtact tcatgacaca actgactgat gctgatcaag 300
ctctcagtca gtccctttac cagcagtact ttgttcagac taggaagtcc ttcattggact 360
acctgtacca ttccagtgat 380

<210> 18758
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18758

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aanccaacac cgtggctacg gtatgagcat cacaatgcta ggcgcaagga ctaccggaag 120
ccagaaacac gacaaggcta aaaganggac ggacgaccac ctgcgacgag acgaacaggc 180

gcaacatacg agcaacatac gcggaactgg acacgaacgc aacaagacaa gaagacgcac 240
gccgacgaca cgcgcgatca taggaaggcg agcagaccag gaaacagcca taccgacaca 300
ccgaaacaag cgacaagcgc gacacgaatg gacccgatat ccagaaactg cacagcgaga 360
ccagagacac accgaggagt gaggcagatg acaggcgcat gaccagcaaa cccgcgacct 420
gatgacaccg cgaagacacc gccactggac tggagcacac ggacaacatt gcc 473

<210> 18759
<211> 656
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18759

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nannnannna nnaagagggg agngcgnatg atgacgatcg gtagcacctn cggngacact 120
annagaanac nncanagcga ggccgcgagg aggggcgcg cncagacag agcgacacag 180
taataagcaa gctcggaaacg gcgcgcacga agacgacgcg gcacgcgga gagcgacac 240
gaagacgccc gacaacaccg acgccaacaa gacagaggag gacaggccag ccgagaaccc 300
gaagccgaga cagacagcag cagtagacga gcaccaacg cgcgacgaca ggacggacac 360
aagcgaggca ggcacctgag caccaagaag ccctgaccac gaaagaagga ggccaagagg 420
ggcagaaggg agcacagaag cgaggggacc caccgcagag ggtataaccg ggggggacca 480
ggggaataga gaaccccaaa cgcaccacgg aagcgacaac acaagagaag agggcgaccc 540
gagacgcacc aaccagacga gagcacgaac cacgggagcg cacaagtac cggcgcaagc 600
gaagccacaa gaaacaagag cggcacacaa tgaccgaacc gaccgcgac tcgccg 656

<210> 18760
<211> 388
<212> DNA
<213> Glycine max

<400> 18760

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tcggactctc agccacttac gatagccgcc gatgatccca ttactgcttc ccctaagctc 120
tctgtccttt cttcacgccg catcccatgc cttgcgaact ccttggagta ccctcgctt 180

gtggtcacta aaaccccggtg cgatgaaagg cgtgatgctt tegtctaattg gcgctcctct 240
catggggtag ccaagetgtc ttatggcgag aacgggatta taattaatac aaccgcttgt 300
tcccatcaag gtaacatttg gacatccttc gcataagat agtatcttga ttcttgcttc 360
tttctagcga gggaaccaat aaacagac 388

<210> 18761
<211> 425
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18761

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gaagaatgtg gcatttacct gtggtgaaaa acaagagcaa gcctttgctt tgctcaaaga 120
aaagcttact aaggcaccta ttctagctct tcctgacttt tctaaaactt ttgagctaga 180
atgtgatgcc tctggagtgg gagtcggagc tgtattgtta caaggtggac accctattgc 240
ttatcttact gaaaaacttt atagtgcac cctcaactac cccacctatg ataaagagct 300
ctatgcctta ataagagctc tccaaacttg ggaacattac cttgtttcca aggaatttgt 360
cattcatagt gatcatcaat cacttagtac attagagggc acagcaagtt aaacataagg 420
catgc 425

<210> 18762
<211> 397
<212> DNA
<213> Glycine max
<400> 18762

agtttaattt caatcaattc aaaattaaat ggggttaagt ggggaatgat ttaaattatc 60
ttaatcgaac tcttattaaa caataatgat ggtattatat tctattacca ggacaggtgt 120
atcattggct ttccttgctt ttgcaagagc gcagattttc tccacctaac gtcctaaagt 180
tgcgcttatt aatgttctta tctttgcata tatataagta ttgttaatgt tatttttaat 240
ttaaattagc ttttttttaa taattactgt caattttcaa ttataaaaaa atgtcaattt 300
tgacaaataa aaaaaaaga atgacaataa cggtgaaatg tttatgcggg ttcacaataa 360

ttaaggatct agaactaact tttatcttct ctttagt 397

<210> 18763
 <211> 461
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18763

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 cagaatcata aaacggagat ggaacaagag gaggaggata atgcgaaggg tatgcagggtg 120
 gtccttgggtg ctgctgctgc tgctgctgaa gtacaagatg aggcgggggga ggggcatgag 180
 ggtgtaatcg tggaagtggc tgttgctgct gctgcacggc aggatgataa tggaattggt 240
 gcataggggg gtgtgcatga ccaggacctg tggggataaa aggagaaccg ngcattgacg 300
 aaggaaactg ctgatgctgg cgatgaaatc caaactgctg ctgtcgttgc atattagcag 360
 cttgtcgttg ttgctgagca tatgccatag cagatgcaga tgcataatca tgaccctggc 420
 gctccataac ctcaacagca cttaagaagt agtattatct t 461

<210> 18764
 <211> 410
 <212> DNA
 <213> Glycine max
 <400> 18764

tttcatgcaa gcttaaccac caagcataag ctatacctca aagtttaacc acttggcaga 60
 agcaacgagg cttaaccatc aagagcagaa gcaaaacaac aattcaatgc ttgaccatac 120
 atgacaaaag cttaaacaat gcttaatcac cacatacaga agcttacatc atcacaatag 180
 aagaatcaca aaatctggct tctatgagaa ctttttgtga caccctctac ccctcacata 240
 tatactgata aaggaataaa aatctaaata ttaattaata gtatctttaa atacaagcct 300
 ttcaaaggg taaaaggctc atattcactt tcttctacat catattcaca cttgtccaaa 360
 taaataataa agatatctcg gtttaagcaa gaccgactaa gacttcatac 410

<210> 18765
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18765

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acattgtgtg gaatttggct tctccaattt gcatattatg gcaatcactt cgaatctgta 120
aatccatgc atattgatag cttgcaaaat ctaattagtg gaagtaaagg gaatgactac 180
tgtcaattct gccccacccc ctttttttcc ttttctttt ctaagatcta ttttggttca 240
tttgtgtatc acttatattg ggtttttctg tcttacagct tcagaaatga aacttctggg 300
agcaaataaa taatgaaaga atntctgatg gtggcactaa gagccacaag agaatactct 360
aggggtctaaa agtctactac agagaagata aaatgctgca ttttaagatat ccgtcattca 420
tatgtgctcc aca 433
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<210> 18766
 <211> 400
 <212> DNA
 <213> Glycine max

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<400> 18766
agcttattcc aagccacgat tgatcagatg gatactgctg cttcaagaat ttgatttagt 60
catcaaggac aaaaaatggt ctaaaaatgt ggtagcagac cacctatcca gattggtgaa 120
tgaagatgtc acttcaaaag aggttgaaat aagagataaa tttcttgatg aatctttggt 180
tctgattgca gggagaccct ggtagctga tatggctaata tacaaggcag caggtgtcat 240
accaaaagac ctcaattggc agcagagaaa gagattcttc tatgatgcac acttattcaa 300
agtaagtgtg gataatctcc ttcgaagatg tgtgacaagt gaggaggccg acggcatatt 360
gtggcattgt cacaattcac catgtggcgg gcattatggc 400
```

<210> 18767
 <211> 445
 <212> DNA
 <213> Glycine max

```
<400> 18767
tctcgctcatg actgttggat taaggcgatg cttactgtgt tacatgctct tcaacagaac 60
caaacttggg ctcttacctc tctaccacca cataaaacaa ccattgggtg tcgctaggtt 120
```


tacaagataa agtatcatgt tgacgggtcc gttgaaaggt acaaagcacg cctagtcgcg 180
aaaggggtata cccaaatgga aggtttggac tttctagaca ctttctctcc ggtagcaaaa 240
ctcaccactg tgcgtttact cctcgcccta actgcactta ataattggca cttacgacaa 300
ctagatgtga ataacgctct ctttcatggc gagcttaatg aagaagtcta catgcacatt 360
ccttaggggtc tttctgtgga taatcctcat cttgtttgtc gccttcaaca ttccttatat 420
ggggtcaaac aagccagtcg acaat 445

<210> 18768
<211> 658
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18768

gatcgagaca cgngtcgtcc ggttaagcga gatacacgaa cagacaaagg accaccaacn 60
annaaagaag cagganttga gacgcngnta cggcannggn caacaacnna aancgcaggc 120
gccganacaa nacaggcnca ccggcaaaca caacaatggt tgcaagcagg acgaancncc 180
cacacgcgga ggaggacgac acagcagcaa agacacgcca ccgcacngac ancgcaacaa 240
cgaaccgaag acagaaaaca cagcgaagaa gggccggcga gaacgaagcg agacgaacac 300
cacanaggca acgacaccga cgcgcgacgc gacnacagac aagagcaacc agcgcagcag 360
acggaacaaa caacaacacc aaagcgcgca acacaacgan acgcggggcga caggagcaga 420
cggacngaca aacaacgnaa cggaaggggc accacgaaag aagaagcagg aggcacgcca 480
acacccacg aaaacaaagg cgacgcaaca caacaacacg gaacgacaga agcaaccnng 540
aggacaacgc acaggcaaca gacggcacng aagcgcgagn gccgcagaca cggcaagaga 600
acggacgacg gaccgaagag cagacgcaa acaacagcga caaacgagga agaggccc 658

<210> 18769
<211> 492
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18769

ggacgtttta tgtgcttgtt tccgcgcctc gaatctaagt gggaccgggt cccagactat 60

atcgaccgac gatttattgg gaccatggtc ccagactaat aatcagaccg acgatacgag 120
 tgggaccgtg gtcccagtct gattatcaga ccgacgatac gagtgggacc gtgggtcccag 180
 actaataatc agaccgacga tacgagtggg accgtgggtcc cagactaata atcagaccga 240
 cgatacgagt gggaccgtgg tcccagtctg attatcagac cgacgataca agtgggaacag 300
 tggggcccaga gagaatatct aggccagtta tgctttctgg cctgtaacaa aggacattaa 360
 gtaaagacag ataaacgtag actaaaacgt ggtcgcatca ggggtgctggc tnttcaagtt 420
 ccttaagaat gggcctcaat ttctctatac actcagttgg aacacgagac ctgtccaggt 480
 taagcaccat tt 492

<210> 18770
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18770

agcttgggtc aaccccataa cccagagaat ggcaattttg atcgccaata cttcaacaac 60
 atttcatagg gatgaaagac tcgagaatac gcatgctatg catggaaaat gtaattatga 120
 gattgagatg cccgaagaga catcctttct taattaacca cgcattaggt accatgctca 180
 atcattttgt ttgtttgttt gtgtgttttt ttttttaatt ttagaaatgg gtttatgatc 240
 ccaacatggg ttggtcatgg tacctaacac atgcaactaa gaatgcatca tgaattttca 300
 tgcttccttt nttttttgtt ttgtttttgt agaggaaaat aaaaacatgt agaacaaaaa 360
 gtatgttgaa cgcatatgca tgatgatgca atgactcatg cacaatggga at 412

<210> 18771
 <211> 539
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18771

ggagccacga acacacaagc aattctagac acccaccgc acacaagcaa tcaananatn 60
 nananannaa gagnnggggn nnatgatgac tcgaagcacg ccgacaacca anacnacacc 120
 gcaggcnaag acagaccaca cgaggcgga gacccaactt acaagggcga ccccgacag 180

gaagggggag agacagacct ggaacaaacc ggacaccagc gggacggcac gaggcacaag 240
aacacagacg aggaccgaaa caggcgcgga aagaacaccg caccgaaaga acaccacaaa 300
caggcgccaa gcgggcacaa aaagaaacag gaggtgacgc caagagaggg cccagaccag 360
aaaccaggca caccgaaacc agaaacgtgc ggaaaaaggg ggagagaagg atcgcgagaa 420
agaagaacca ccgggacgga cagagacacg cggaagccga gaaaccagcc aaggaacaag 480
caggaagcac gggcaggcgc acggcaaact aaaaaccagc acaaacaagg aaaaaccgc 539

<210> 18772
<211> 406
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18772

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gtcctatatg gatgttagtt caaggaggtg atttgttggg ctgtgacctt aatccataaa 120
gaagtttatt ctgttatttt ttgttttgtt ttgtcatcta cctatataag gcaaggatgt 180
cctgtatttc aaagatagaa taagcttcca cttgtatact gcaactataa taaaagcttt 240
ctgttttttc ctcccatgga tgtagccttt ctcaagggtga accacgtaat cctatgtgtg 300
ttctttctca ttcttctctc tttcaccttt gctgcacaat tcggtgtgta tgacatttct 360
ggtctactgc attntctgct gntgntcttt gcttgtcttc atcact 406

<210> 18773
<211> 458
<212> DNA
<213> Glycine max
<400> 18773

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ctgttgatc gcaggcttag cgcgcgttc tgttgatca cgggctcagc gcgtgtgggc 120
ctgcttcaga ttttcttctt ttcttcaatt ttctggcctt tttgcttggt acacctccag 180
tttttatatc tgcagccaaa attcaacaaa atatcaatta tttaatattt aagcgcaaat 240
aactgctaaa taattatttt taaagacaat tttgccttat tttctattat caaaatacat 300
ttatttagca gttatcaaca tgcttgaatt attaattgta ttttctttg catgatcaaa 360

tgagacttaa taaaaatgct tgtatgtgcc ttgcatcctt aatgtgtggt ataccataca 420
tccactattg agtcatgagt tatgagactg gccatctc 458

<210> 18774
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18774

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agttttatgc aaccagaaaa ttttctctgc tgtcattggt agagactaaa gcttaacttt 120
caagcatgtg taagaactaa aatttacaat tttctcgaaa cttaaactata aaatggaaac 180
aaccaagggg gaagatgaat aatttaacat caattataac ataccttttg aaaattagtc 240
tccgcatcat tttcttcttc cgccttgatg atatctgtga ggtgggtcaat caggttcaac 300
tcccacgtat ttttctgatt aattntctgc aagcacacaa aataaaaaaa ataaaaaaat 360
tatttcttct ttttgttttt ttttgtgggg gggggggggg 399

<210> 18775
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18775

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taggaatatt ggattgtctc cttcagcaag aagtttatag aagagacaag gcacagtgtc 120
cgtaaaccga cacaagtggc tccaaaagac atgaaaaaga tagaaaacta gcatggactt 180
gtgtggatca cacaatgata tagataaatg tggtaatcaa ttaaacttaa actcacgttt 240
ttggctgctg agctgaaagc ctccctgtgg ctgatatctg gattactagc cttaatcctt 300
tgaatttcct ccctgcaaaa ccagacagtt gaaaagactt actatntggt tttgctgaat 360
ggaatcatct ttagtctatt ctcagtgttg attgtttatt ntttatcttt tgaaatggaa 420
tcacctatat acctgtatat tctaatatat tnttttaata 460

<210> 18776
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18776

tgtttccatt atgatgaaat cctcccaagg agaggaccca tcaccaaagc catggctagg 60
 agactccaag aagattcggc cagaaatata ggagaaggtc ctanagttct catgagcctt 120
 acggtagatt ctgngtcaat ggactaagta tgagaccact tatttttgta catattagtt 180
 taggggtttca ttatttttgg gtcttgatt tacggctcca tagtgtaggg aggggtaccct 240
 aataatgtag gatttttcaa cccttgatt ttagggcact tgactagttt tgtataaggg 300
 tagttttgta atttacatgc attaagtgca ctatttg 337

<210> 18777
 <211> 471
 <212> DNA
 <213> Glycine max

<400> 18777

tgtagattca tcctaactag accctaacag actcttatct ctaacacact ggtatgctac 60
 ccattctcacc tcatgagcat gctcgggct actctcgaac tgccacaagc atgccattct 120
 gcatggcatt tgtcgtagca ctacaagata cctttggggc aggacgcttg tacactatcg 180
 agagaggagc cactacctta gctgtcctgc accatacact tgctacatga cagacacgtg 240
 ccattgagtc tcctgcatgc aacaactatg ttctcatagc cggtatgtgc agtatggaag 300
 accacatcag gggcacatct ttaacaactt gcagtgatgc catatacgag atacacactg 360
 gacatccgtc agcgactgca gacgcgaatt tttgttgtc ttttctgaat tcctttcttt 420
 cattggcggtt ggcaaatcca atgcaacact atgatcaata tcaccagcta t 471

<210> 18778
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18778

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cgtcgaagaa cggttgaaac ctttgcgaaa ttcttcacgg aaaacgttac aaaaacgttt 120
 cggaagcgcg tcggcttaga ttttcttcac ggaaacaatt tttccaagca aattcgaaag 180
 agagagaagt gcctaagggg ctgaaccctt ttcttcttca ctctctcccc tatttatagc 240
 aaaatagggg agatgcttgc cgcccagctc gccagggcga gctcagctcg cccaggcgag 300
 ccagggttgct tctccagaa gcaacagcct tctggaggaa tattctggag ggcccaagtg 360
 ggctgggtg ctatttgcac cncattttt actaagtaca ccccc 406

<210> 18779
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18779

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 aaaatcttta tgatttacag gaagagcctc cggcacgggc tgaaaagctt gaggatgtg 120
 catattggtg ggtaccgtgg gaggtttact gcgacttang ccacgcaggc attgaagtga 180
 cggcgtgggc atctccctcc ttctcttttg cccagctat tccagtcctc ctatggctgg 240
 taccggcagg ggagacgtaa tcaaatttcc cctcttcaa acccactccg atcctttctt 300
 cggaggatac caagtccgca aagctggagg gcatgtagcc cactaacttc taatagtaga 360
 atacagacag ggtatccact atcattgtaa tcatttcctc ctcgaccatg ggaggggcca 420
 cttgtgctgc tagatctctc caacgttgag cata 454

<210> 18780
 <211> 389
 <212> DNA
 <213> Glycine max
 <400> 18780

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 acccattggc cttctgtgaa tgttttgtct gtgcgcttaa gattgctctg ttgggtcata 120
 cgattccttg ctgcaatgag atttgttttc agtagctaca atatctcttt cttttgagaa 180
 agtaattcct ctaacaaaga aattttggac aactaagta catgggaggc aatacaagga 240

ggcaatatgc catacaacgg ttcacatagg gacataccta tggctgaatg ataggaggaa 300
 ttgtaccaaa attcagccaa tgggaggaaa cggatccacc attgtggttc atcactcaca 360
 aagcaacaca agtacgtctt taaacatct 389

<210> 18781
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18781

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 tggcgctcc tctcacctct tctcctttgt cttccgctgc atctccatgg tggaaaatca 120
 ccattaaagg acctcattga agctcaaaga tccagcctcc atagaagccc cacaagcaag 180
 cttccatcaa ctttagacaa attcttccgg ttatcccaag aggatgtcgt tcagacataa 240
 tcaatgcaaa aatcaattca tcataccttt ggggcaatat tgtcatgtgt taaggctcac 300
 aagaaatatg tgtctacaaa atgggtccaa caatgatagt gaaacaaagc tcanagaatt 360
 ttctcaatgg cttttagatc tgggtgatgg aatagcttag ccaaagtatg gttatgcac 420
 aatacaaatt cctaaatcac ttttgacaac agagtttga 459

<210> 18782
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18782

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 cgtccattcg gaattcgttg gcctccattg tgagggcaaa ggttttgtct atctccggat 120
 ttgctcacct tgagtctgtg tttgttggga gagattttgg catcgaggta ggtttccacg 180
 gcattgtaga tttggttgtt tacgaggcca tcgaactcat cgatgattan ggttatgtcc 240
 aacgagaagc gcgagaacat gttgcggatg tcgttggtga tgtaggactg gagcaccatt 300
 gtgctggcgg tcaactgatgc caocgagtga tgcaatccta ccccccattg gcattggata 360
 gaagactc 368

<210> 18783
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18783

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 agatttggtg gaattttgca cactgatcaa atttcttatac atcttacaaa tggatatcac 120
 tcggtactat tagttttttt ctcttaaggt atacaaagtg ttctgagaaa ttagtatcctt 180
 tacaagaatt tacataaagc tttatatgaa agaatgaaag agtttggttca cgtagatgat 240
 tcgtatcttg attttcaaag cttcttctat atatagcctt catcttcaag tattatttgt 300
 ctcacaatgg ttggattctt cactatgatc tatgatcgat gtcttgagta tgatggagta 360
 tttaatgctt gcattagatg catgtcgatt cttcatacaa agtccatgct attaggctaa 420
 cat 423

<210> 18784
 <211> 308
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18784

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 tgggacctgg agatatgtcg cgggggtcac gagaccttgg tgactgcatg cgggtgtgcta 120
 ttgcccataa cctaacttga ccaatcccga cccaacccgg gcatagacgg tcagcgagaa 180
 cctgtgatgt acctaagcag gcgagctcct ggcagtcatac tgatataagg aacctagacc 240
 actaagcaag gatgctcgtg gtggctggcc agctgtgaat ttagtgagac atgtggtttg 300
 tgcgctct 308

<210> 18785
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 18785

tgaacaagt gactaacaac aattccttct ctattgctaa tgtttacact gcattatgga 60
 gacagacatg gtttcttcaa tactgtgtat tcacgtgaat cccaatatat ataccaattg 120
 aggcgggttg cttctgaacg ggaacggagg ttccagagca tcaccgaact gttcaagtga 180
 gacatcagca tcggcctcga tgaacatgac ccgcttgaga gtctatctca gataggatcg 240
 taatttcgcc attatagggtg atattagcta cacataggta gcgtgactca tggagtacgc 300
 ccagcgttat tgtataagca tggaatcgat caatatccac atgtgtggac aaagaatctt 360
 gaaagc 366

<210> 18786
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 18786
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 tgcaacatat ttctttggcc taatactaac ttcaacattt ttacagcttc taatgttatg 120
 attggtttgg ccacaccttc cacatgtaaa ctcaaccaat ttctctttta acttatgtac 180
 tgagacattg gcctcatgta cagatctcct tctatatctt attggccttc ctgtatggac 240
 ccttttatgt ggaggaacag ggcgagtata ttgagtctgg gtccaatatt gcggtccttg 300
 gactgggtca ataaaatgct ggtatgtctt atgatagact tctattgaca gccactcatg 360
 acacgtgtcc tcatgcttcc ctcttttgag agttattgcc gcaatgg 407

<210> 18787
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 18787
 ctcagctaag agaatcccag aaggcgctc agtgttctca cgtaaccgcc aacgatattt 60
 ggtgcatcaa gaggcataga agttgatacg aacaaagaaa aggagtgcca agaggcaagt 120
 gttggatcac gtggcttcga aataattaat aaggaggggc tgaattaatt atgaacgtat 180
 cttgactaat taaaaattta tcttctttaa tgttactaga ttcaattatg ctttactact 240
 aagttatgag aaagtacaga tcagaaacac taacttagac acacgtaact gcgtaaataa 300

aatgcacaca gcggaaaagt aaagagggtga gggaagacga aacaatacac aagttattat 360
actg 364

<210> 18788
<211> 388
<212> DNA
<213> Glycine max

<400> 18788

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tggtagctag agatatgtcg cgggggtcag gagaccttgg ggacgtcatg tggggtgcta 120
ttgccccaaa ccaagcttga ccaatcccgga cccaacccgg gcatagtcgg tcagtgaaga 180
cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg acaaaagacc 240
acaaagcaag gaggcttgtg gtggctggcc agctgtgaac tttgattgat atgtgggtta 300
tggcctctgg taatcgatta ccaagggtgg gtaatcgatt acaggcttta aatgaaacag 360
gaggctaaga ggtctctgta atcgatac 388

<210> 18789
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18789

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agggcagagg caaaaaactc tgccccaaac atattcacat atcacagctt tccttactca 120
tatatccaag taacattctt ttctttctga tttgttaacc attggatcga cttgaaaatt 180
ttactggagt ttcttagtac ataaatctac attttgaccg ttgggatctg ctataaaatg 240
tctagaacct aaaatatact acctttccca taaccagcaa tgcacaagca tttttctgca 300
cacatcaaaa atttggtgca caattcaaca gcatttttct gcataatagg gcagatttcg 360
aaatccatct tgcccatatc caattnttct canatnggat cctacaagtc ctaaatacatg 420
tataaatcat atttaaacca aaaacaagca tca 453

<210> 18790
<211> 411

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18790

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aatgaagaga acagagaatc aaagtaatca atttatgtct atttcaacgt tagagatcat 120
tgcacatttg tagcatttct ttacattttt tgtcatagtt aatgttaca gaaaaagaga 180
gactccataa caacaaaaaa gaagagaaaa aaaggaaaca gtcgtgtaag catgatataa 240
taaacttagt atagaaataa aaatattatt gctaaataaa ttaattttaa atgtccagta 300
aaactaatta ttttataaat ttcctattnt aatgattaaa ctntatttat tcattattct 360
ggaatggcct aaacggccaa acaagacana gtanccttta tataatcact a 411

<210> 18791
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18791

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tttttccaat gttttttttt tcagtggagg tggtgactac tgattgtgaa taatacttct 120
gggaatttgg attttaacca aaaacaatgg tatcatgtaa ttcattgtatt tgacatcacc 180
tgggataaaa tcatcatggt tgttggtggg gaggactat tggttgatta tggtaatggt 240
ttgttttgtt ttgttcactg ttctgtcttt gatggattct gttgtaactt gtaatcacct 300
cttcctttta cttaagctgt gatttatatt ggtaaaatgg tgttgatttc ttatcaagtt 360
attctgatat gtaacagaat tgcaatggaa tggattttca atgatatttn taagtnttg 420
cgtgttctag tttcttca 438

<210> 18792
<211> 398
<212> DNA
<213> Glycine max

<400> 18792

agcttatgtt gggcaacaat gatgtaaaaa aaaaaataga aagcaaattc gccaaaggag 60

aacaaagtaa aaatagacaa aagatctcca aattttacaa ggaaggcaca aaagtgcaat 120
aaggattaat gtataagaca aatggagtag agcccaaccc gaaaaaattg gaatgaataa 180
aagtgaaga aaaactctca aggttcttac tcaatataac ccttaaactc tctttgagcc 240
tctttgatcc tttctttcat agccttctta cccctgacca cgttacaacg ccaataaagt 300
ccatgtggat caaggaatga ctaattttgc ttttgtgttt ggattctgga atggaatccg 360
cacgcttatg aatgtaaaaa aataaaaaaa ataaaaaga 398

<210> 18793
<211> 457
<212> DNA
<213> Glycine max

<400> 18793

gtgtcggaag ttgtgttcta ctgcctcgat ggattgttct ttccacagag ttgggtccta 60
taatctgttg tcctaaccta aagttgacca catgaagtga taaccgtag gtttgagcag 120
tgataatttg atggtgaaaa aatgagttac gcatgatagc caatgtctta aatcattata 180
cattttatga catacatgtg taatagaagg cttttgaaat atacgaaagc aactacttta 240
gtgggttcacc atacgtgggg ctaaaggcta attgcttcga aactgaaagt agttataagt 300
tccttagaaa aaaaacctgt aaagcgtgtt ttcttgcctc cttttctttc ttttagcatt 360
tttaacatgc tatattgggc actagcattt ggtaccttta aatggagggtt tattattatc 420
tagctacatt cttatgtttg actgatgaaa gtgcatg 457

<210> 18794
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18794

agcttattta tgttaaactt caatctagat gggatgaacc tttttttatt actaatgttt 60
ttccccacag tgtagttgag attataaatg aagttattga caaagtcttc aaagtgaatg 120
gtcaccaact caagtttttt catgagagcc cccaagtgga ggaagaattt gtggcgaacc 180
tctcttttgt cttgccaaatt ttatgtgatt atgtgccttg aatgacactt gaggagtttc 240

ctttcctttt cttttatatg ttatctcttt gtttgcattt cattacatgc tcacattgng 300
ggacaatgtg catttcaagt gtggtgggaa ggttttagata aaaaattggt tggttctttt 360
ttacgtttct ttgtatttgg tttattagct atatctattc ttctat 406

<210> 18795
<211> 287
<212> DNA
<213> Glycine max

<400> 18795

atcctaaacc aagaaaacag ggcggaggct aaaaactctg cccaaaacat attcacatat 60
cacagctttc cttactcata tattccagtt acattctttt atttctgac agttaaccat 120
tggaacgact tgaaaatgta actggagatg actaccacat aaaactacat cattgccgat 180
gggatctgct ataaaaagtc tagaaccac aacatactac cttatccata accagcagtg 240
cacatgcatt tttctgcaca caacaaagat gtgttggaac attcaac 287

<210> 18796
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18796

gcatgatcaa gacaatgcct attgaacctg atttatttgt gtggggtgca ttgctggctg 60
cttgtagaaa tcataggcat gtggagctcg cggaagtggc tgctatgcat ctaatggaat 120
tagagcctga gagtgtgctg aacctcttc tgctgtccag cgtatatgct gatgctggca 180
aatggggaaa gtttgagagg gtcaagaaaa ggataaagaa gggaaaactg agaaaacttc 240
aaggtttgag ttggatagaa aatttataac attatangta cgttgggttg tagaggccat 300
angttttgct tcttcatgaa gagaaggga cacctactgg tataatTTTT gatgtatcgn 360
ttgtgctcct catg 374

<210> 18797
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18797

tctagtttgt tatttcatct ctatccttct aacttattat tcttatactg attgacgctt 60

caagagtttt acaccggact ttactattct ttgttggttt gttttacttt tccattaata 120

aaaaaacaca tcaagtcaca aataactttt aagataatta ttctaaaagt caacaaattt 180

actatatgac gaattgcat tgaatgataa tgtaaaaata ttttataagg atgtttatga 240

gtctgaatta atccatgatc caaccctgct caatatagat ccaattatat tcggattgga 300

taatgggttg taaattgtca acttgtaatc caatccgacc cggtcataata ataaaaaata 360

ttaatattat taataagaat ataataaaga cttaaattatg attttgattt tttttaattt 420

ttaaatttat gaatttggtc tcccta 446

<210> 18798

<211> 409

<212> DNA

<213> Glycine max

<400> 18798

agcttgatca atcaccatag ccatgggtca atgattgatt ggtaaaattc tatttttctt 60

ttttccccag tttttcaaaa agcaaaaaga gttgaacaga ccaatgaata agaattcata 120

tattcagaaa attccctctc cttaagata aaagacgagg atgcactttt ggtttccggt 180

tgggggcctc acttgttctt tttctctacc cttcaccac ctttttctct tccatgccca 240

aatgcatgt cctctttctt tttttgtttt tccattttca tttcgtgaa accctttcta 300

ccctaattct agagtacaat gccctgctct ctccgttcag ccattaccga ctctcacca 360

cccattctt cttcgtgaa caccttcac cttactact cctagctcg 409

<210> 18799

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18799

ntggagtaaa aggcttacta aagaaggcaa tagggtgttc tttctgcat aagactgcac 60

ccatgtcgac accaaacacg tttgtttcca aggaaaaagg gataatgaag tccggcaaga 120

gtaaagtagg ggctatagaa agcacatcct tcaatccagt gaaaacttgt tgcgccttag 180

atgaccactc aaaggggtac ttcataagta acctgggttaa ataagctgca atggaggcat 240
agccacgaat aaatcgggtga tagaaacccg agaggcccaa aaaactgtgc aaggccttgg 300
aggaatgagg tgtgggtcac tgctaaatgg cttggacctt agccgacact ggttcaactc 360
cttgtgcaaa aaccaggtga cccaagaact caacttggtg ctgggcaaag gtgcacttgg 420
atagtttgag gaagaactga ccatctagaa ggacctga 458

<210> 18800
<211> 405
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18800

tgttttaaag cacaacaaca cagaatctag gtgtccaaca cccctccatt caatggcttt 60
tctaggtttg aaaggtgaaa tttagaatga ggtgaatttg aggcaaactc tcacctcaca 120
ccagtccata acgtcaatct aaacttgccc aaactggaat tacacctaaa attccaccaa 180
atcaaaattt gactcttcaa cacccaattt tgcctagaa atggctcttg gttcactttg 240
gtcatttatt tttctctcta gctcagccta acctttctca catgttctaa atgacatttc 300
aagctagtat tgactcactc taacctccat ttaccacaga attccgactt agccttccaa 360
ctctcanagt ctactcttt ntccactcat aacatcacat tctca 405

<210> 18801
<211> 447
<212> DNA
<213> Glycine max
<400> 18801

ctatagaaac tcagcttgaa atgggaatgc actagcatcc tactctttct ccaaactcga 60
aggtggagga cacatgaacg aaaacacaat tcatggggct ccgaaaaagg ggttgagaat 120
ggagaattac actaagcaat cactacgcat agtccaaac tcgaagggtg aggacacatg 180
aaagataacg caattcatgg ggctccgaaa agattgagaa tggagaattg cactacgcaa 240
tcactacgca tagtccaaa cgcgagggtg gaggacacat gaatgaaaac gcaattcatg 300
gggctccgaa aagattgaga atggagaatt gcactaagca atcactacgc atagctccaa 360

actcaaaggt ggaggacaca tgaacataac gcaattcatg gcgcttcgga aagagtgaga 420
atggagagag gaactaatca atcacta 447

<210> 18802
<211> 387
<212> DNA
<213> Glycine max

<400> 18802

tgtttctagc catatggact taccttgaat taattccttt gatagccctt ttgagccttg 60
tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120
atataccttaa ggaatttttg agcttttgaa ttgttttggg aataagtgtg ggggggttttt 180
gtttcattgg acaacttggt ttgttggcta tgcttcatga tgtatttttg gccatacttg 240
atgtacattg tatattgggt aaatgttggg catgctgaat gaaatgttgt ttctcaaagg 300
ccaaagagta aaaaaaaaaa aaaaaaaaaa ttcaaaaaaa aataaaaaaa aaaagaaagg 360
cattaaagtt gagtgaataa gatctta 387

<210> 18803
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18803

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cgattatcgt ctccctttcc atcattgggg gtaccaccgg ggccgccaga tccctccacc 120
ttttgggcgt gttctttgaa tgatccgtcc ccctttttgc acatgttctg tagttgcac 180
ctatccgga ccatatcaaa attgtactga tactgcctaa caaaggcaac cattatgtcc 240
ttccaagaat ggactcggga aggttccaag ttagtgtacc aggtaacagc taccacagta 300
agactttctt ggaaggaatg tatcagcaat tcctcatctt ttgcgtattc ccccatcttc 360
tgacaatata tcttttagatg gttcttggga caagtagtcc ccttgtactt gtcaaagtcc 420
cgcaccttga acttgngagg ggtgatgata ttggg 455

<210> 18804
<211> 409

<212> DNA
 <213> Glycine max

 <400> 18804

 tttcttaatg tctcctaaga taagaaaaca accaagaatt cattgcagga aaaaagcaca 60
 aattattcaa gaaaaaaca tcttagaact tttaaattctg aatttgataa tgttatcaaa 120
 ctttacctga atttttttta accaagcaaa gcataagaat atgttaatat ctgtcaacaa 180
 agtcggtaca agatgtacct tgatcaacca acataatggt gataaagaag cagccaaaga 240
 attgttataa accccttacc caagccaata tattaatatc tcatcttaat taccattatt 300
 aatcatttta attaaattgc aagaataatt aaagttattt tatgttgggtg aaaatataaa 360
 ttaagtgcgt gatattctac gttttatgac aaatgagtat tgttgtatg 409

<210> 18805
 <211> 459
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18805

 ntatttgatt aaatcgattg cttattttcaa ttattattaa gttactaagt tcacttttta 60
 ataatttcaa gagaaatfff cttgcacttg tcgcactctc taattaagaa aaataaagta 120
 aagggtgttat gcacatatca tttgcaatgg cagatcaact ccaagtgtga acaaaccaaa 180
 agagaaatgg ttcaagaaca ccatggacaa tttgtacaat ggacgaagca cacaaggaaa 240
 atgagtgaca acaatttcac tccttttgtg attgagaaag aattgtgaaa ctaacgggta 300
 aagagacaaa ataggatggt tcggctaatt ctttcattta gaggaccaga gcaatgacta 360
 tgatcatata tacaaaatta catgttaata cataattatn tgctacctca tcctttcata 420
 gatnnttaaa tcgacatatt ataagttntg aanatatac 459

<210> 18806
 <211> 409
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18806

 tgtttggact tcctgtgttt tgggaacctc tccttctca ggtgtacca aaccaatca 60

cttggttcaa gcacgacttt ctttctgctt ttgttggtt gccttgcata gctcgcatth 120
 ttcttttcaa tttgaacctt cacttgctca tgcaacttct tcatatactc agcttttagcc 180
 tgtgcaccc tttgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240
 aaaggattaa atccatacac tatctcanat ggtgaacaat tagttgtgct atggacagcc 300
 cgattataag caaactcaac atgaggcana caggcttccc aagatttaag attnttcttt 360
 aaaacagtcc taagcagtgt gcctaaagtc ctatggacta cctcagttt 409

<210> 18807
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 18807

tcattgcta acaagccaac ttacaacagc aagttcttat agactcagca taaggatgca 60
 cagggtcaaag ttgagtatgt gaaaacattg tatgaccaag tgaagggtgca aattgcaaag 120
 aagaatgaaa gttatactaa gcaagccaac aagaaaagga aggaagtggg acttgaacct 180
 ggtgatgatc ctggacattt gagggcaaat gttttccaag aaggagggaa tgatgagaat 240
 cctgaaattg gccaaatata agctaaaagc ccaagtggag aaggacgaag gctcaagtgg 300
 agaaggacaa agcccccgag tggagaagga tgaatgccta gagggcaaaga cattatcaag 360
 actattaatt gttgctgatg gcccaaacta atttgaaggc tcaagttaaa taagttttta 420
 gttat 425

<210> 18808
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18808

agcttcctcg gtgccattcc tgcaaggca aacatttgga aagttagttt tagtgggcca 60
 ttactcttaa agcaaaaatg gcatgtaacc tcctcccatc aatacaaaca tcaatgtaaa 120
 tttagagcaa gcttatgcgc atatttcctt acgaacgttc acttgacta gacatcctat 180
 taactaagaa aaatgcaccc atatacaatc aaggcagctt tgttacctag attatttaca 240

cgtacttcca aggtgtatatt gttacttaca tcacacacat ctcttgggt aaattcacat 300
 acatgcatac cccaagcatt ntgggggtacc aaaaattgca catgtgcaca tcttgggtatc 360
 tctaatacct atacatacac aaacttcattg atgaatcttg a 401

<210> 18809
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18809

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 aacaacttct cgtccctgca atacgcaccc attttgcgac aatacatctt gagatgattc 120
 ttaggacaag tcgtcccttt gtacctatcg aaatcaggta ccttgaattt tgggggggatg 180
 acgacgtccg gcaactaagca aaggtcagtc atgtocacga acggataatc gccaaagcct 240
 tcaacagccc tcaatctctc ttcgatgaaa tcgagtttcc cattntcctc tgctgccagg 300
 ggtggccctc ctgcggaaca aaatattggc tgtgttgggt ggtttcgggg ttctcccgtg 360
 aggttgggtc gaggtagcgc gttgggtgcc ggcccctcgg cggngaacag ggagtaggaa 420
 tcgatgtctc cctgggcatg ctctcgacga tcct 454

<210> 18810
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18810

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 tcgagtgacc gtaattgcaa tgataccggt aatgttttga gtagtcgggt ttcaatgggg 120
 tgttagccct ttttggcatg gccaaaatgt ctacagctaa ggccctcatcc atgatatgag 180
 atctattggc tgtaagggga gtgtagcaag cataacacgg ttctcggggg ggtcgatccc 240
 tcttctcggt gtcgagagct ttgttggagt tgggcttatt atgtctttct tggccgaaat 300
 ggcattccgc cacacctggg gaggtcgact agtgacaaat tatgtgctta aacgggctgc 360
 caaggtgtcg aatgaatcca tggagttggg ggggagg 397

<210> 18811
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 18811

tgtggaaaaca aaaaagtgca acacatttga ttagtttata ggcttctgaa gttggcttta 60
 gtcttgccgg tagcaactgc aagcgtggta catgtttttt cagctatgaa gtttgtgaag 120
 agtcagctat gtaacaaaat gggatgatcaa tgggttaaatt atctgaaatt ctgatactgg 180
 ggacagatgt cgtacaggat gtcacgacat cgcgcttcag aacatgcaga ttatatgtgt 240
 gtccgtatga acagattaaa caagtaaata acacatgaga attgttaacc cagttcgggtg 300
 caacctcacc tacatctggg ggctaccaag ccaggaggga aatccactaa aatagtgtta 360
 gttcaagggtc taacagccac tgtttacaac cttctcacct aaccactacc catgcgacct 420
 ctacctatga gccactctta gatatg 446

<210> 18812
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 18812

ttgcatgcaa gcttgaagat gcgtacccca ccttttttca tagtaaaaca ccggtaatgt 60
 gtctactatt atttgtatca tctctttctc cgctattgga ggtgccactt gagcttccag 120
 gtctccctac ctttgggcgt attctttgaa agattcatgc ccctttttgc acatgttctg 180
 tagttgcac cttatccagag ccatatcaaa attgtactga cactgcctaa cgaaagcaac 240
 cattatgtcc ttccaagaat ggactcggga aggttccaag ttagtgtacc aggtaacagc 300
 taccctagta agactttcat ggaagaaatg tatcagtagt ttctcatctt ttgcgtatgc 360
 ccccatcttc cgacaatata tcttttagatg gttct 395

<210> 18813
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18813

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tgaactagtg taatttggaa atcaaagtgt gccttgtaga acttttagga aattttgtag 120
atttttgcta gaaaattggg ataccaagtt agaaaacaga gtcaatgaac tttgatttta 180
tgtaaaaagt ttgtgaaagg atgtgactct tcacatttaa atttaaattc caacgttcaa 240
acacactggg aatcgattac caaatcattg taatcaatta caacattttg aaatcaattg 300
gaacgttgta aattcagttg aaggcttttt gaaaaacatt ttgctactgg taatcgatta 360
caacaatctg gtaatcgatt actagagagt aaaaactctt tggtaaaagg gttttgagaa 420
naattcatgt gctactcagt tt 442

<210> 18814
<211> 411
<212> DNA
<213> Glycine max

<400> 18814
agcttgttca atcactatag ccatgggtca atgattgatt ggtaaaattc tatttttctt 60
ttttccccag tttttcaaaa agcaaaaaga gttgaacaga ccaatgaata agaattcata 120
tattcagaaa attccctctc ctttaagata aaagacgagg atgcactttt ggtttccgtt 180
tggggggcctc acttgtttct tttctctacc cttcaccac cttttctct tccatgccc 240
aaatgcatgt cctctttctt tttttgtttt tccattttca tttcgctgaa accctttcta 300
ccctaattct agagtacaat gccctgctct ctccgttcag ccattaccga ctctcacca 360
cccattcttt cttcgtggaa caccttcac cttactact cctagctcgg t 411

<210> 18815
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18815

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ccatgtcgac accaaacacg tttgtttcca aggaaaaagg gataatgaag tccggcaaga 120
gtaaagtagg ggctatagaa agcacatcct tcaatccagt gaaaacttgt tgcgccttag 180

atgaccactc aaaggggtac ttcataagta acctggttaa ataagctgca atggaggcat 240
agccacgaat aaatcgggtga tagaaacccg agaggcccaa aaaactgtgc aaggccttgg 300
aggaatgagg tgtgggtcac tgctaaatgg cttggacctt agccgacact ggttcaactc 360
cttgtgcaaa aaccaggtga cccaagaact caacttgttg ctgggcaaag gtgcacttgg 420
atagtttgag gaagaactga ccatcta 447

<210> 18816
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18816

agcttttagct taagcccaaa aacactgggtg cttaagcctg aggtttgcaa ctttcaatga 60
atttcaaaaa tcaatccatg gctctccaaa atggcactat aatttcaaaa acacatctta 120
taacatctaa agccagagat caacatttaa aacatcaaac acatcataaa acatgaattt 180
aagcttccat tacctctata gaaccaaaaa aagagctttg tgatgaagta gtagaaaatg 240
atgaactttg gatccaaggg aggatatttc ctcaactcca acagcatgtc catcttagca 300
acatcacccc anacccaaaa ataaccacaa acaaaatcca atccccaaaa accaagctnt 360
nttatgagtt cccctagatg ctntatga 388

<210> 18817
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18817

ntgttgctac acttgagag cgagctcttg cagtgttggt gtcacattcc ccatctgtgt 60
ctccaaagcg tcaactcggg caccatctt aggttcctt gacatctaca atcttcttca 120
ttgtgtgaga ttgatccgc aggtcggacc aattgatggg tcttaatgca caaaaataat 180
gataaaatgg atataatagt gtaatatgag taatgaaatt gcaatggat tgctgtgaga 240
tccacaatta caggaagaaa agagcagaaa aaaagaaaaa taacaaactg gtaatagcaa 300
ccaattccca agcacgcagt gctcccaaat caccagagg cgacccacc aaatccta 360

tgaattcctt cctaattatt cctttccagc aatagctatc tatagccact ctcatgcgtt 420
cacaggcacg tcatcatctt tcattccttt tgtctttt 458

<210> 18818
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18818

ttcattaaga ggcttcctct agaagcttcc tcgtggcttc tttgagaagc tttctcaaga 60
ggcttctttg agaatctaga tccttatcta tccaccctc tattaactaa attaacttcc 120
ttaaaaataa ttacggatga aaataacgca acaaataatc aaacatcaaa cataattact 180
aataatatat agatatatat atcaggggtg tacaggctc gctgatacaa gaatttgaca 240
tcatcatcaa ggacaagaaa ggatccgaga atgtggtagc cgatcattta tccaattaa 300
agaataaaga agtcaccaag gaagaaccag aggtaaaagg agaatttcat gatgagtttc 360
ttttgtaggt taccaccaga ccttggttng tagacatggc taactacaaa gccn 414

<210> 18819
<211> 544
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18819

cacacgcaca cacancacct cagccatcac agcaaaccgc aacaatcanc gaaatgctaa 60
nnannnaagg gggggagntn nataatgacc tcgtagacac ncgcacacac ananaanacg 120
cnagcnggcc gcaacaagaa agagcccnca gacacaaagc cctagggctc acccncaaaa 180
accacagcgg ggcgagagcc angcaaagca acacgccccg cagaggacca acaccacacc 240
cacaacagca caaacggacg acgaaagagc ncccacgaga aaaaagaaaa cggcgaagca 300
caaagacaag aacaaacgac gacaagagag ggagaccncg agacaaaaaa gagggacaaa 360
cacaacaaga aanagaacac caccggcaag cagcgaaaag aagaaaagaa acaccaggca 420
caccataaga cagacaccag acgcaaaaaga gaagcgcaaa agaaaacaca caacaaagaa 480
ctaccgaacc aagacagact gaccgaaacg cggaacaaga gaagagacgg ccgcgacaca 540

cacg

544

<210> 18820
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18820

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tgagaattta cttaggaaat ctaatatcat tctcatcaat gacttataag tgatctcgtg 120
tatatatata tatagtgggtg tgtgtataaa atatagtcac ctgtcactat tttcatgcc 180
acaatatagt accaaataga taattaaatt acaaaaatta atgagggtta taattatgta 240
gatgatgtta aaatttctta aggggtttcc tagactatca atgataggaa acaacaggat 300
cttgaaacct atggttctca caaacaatca ataaacaaca atagataatg atgtgtacct 360
ttctccatag gaagacttgt nacttctcca tangaacttc tctc 404

<210> 18821
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18821

actacgctaa gctcttaact gcacaagctc taatattgtg ttatccttgt ggaaccttca 60
cttgatgaag aactgacaa aaacttatct tctcctttgt ggacaaagtg tgacaagcct 120
gnggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgctcgt atccccatgt 180
cagctagatc ttgacggata ttcaagccat ccttcgtctt gccttgaatg tttaggagcg 240
tcccaatcac attatcacat acatttttct ccacatgcat aacatcaata caatgtctaa 300
cgtccagatc agaccagtat gggagatcaa agaaaatgga cctcttcttc catatgcaag 360
tcttactctt atccttcttt tgggtctttc caaatacaat attcaggtgt tgaacccgct 420
gggtatacctg ttcaccagtc aacagtatcg gtgcaatatc gt 462

<210> 18822
<211> 391
<212> DNA

<213> Glycine max

<400> 18822

agcttctctac ctgttttgtgt tgcagtgggt gcccccaaaa tccgctataa tggctagtgg 60
gagtttgact attctaaggt tttgacatag acatcaaata atttatagta aacataacctg 120
tataaaatta taaatgatat tcatgattaa tattgatatt ttaatgattg aaagtcattg 180
aagaacaaca cggcagaaag atgaaacatg aaagacctgt tccatattgt ggaatgagta 240
taatagagaa cagaatatag agctttggag gtcagcaaga ttgccagata ctgacatggg 300
ctggctggaa atactgctgg aaaaaggggtt ggtgtaatta gtccgtaccc agaagagtgt 360
tgcattgatga tgggaaaaca aggaataaac t 391

<210> 18823

<211> 447

<212> DNA

<213> Glycine max

<400> 18823

gtaatgtttc aagaatgtcc ttatgtatat tatatacatt gttatgctca tcaattacaa 60
cttgctcttg ttgcttcaac tagatgggta gttgatgtac gcgctttttt ttaaacttga 120
atatgattgt aaatgttggt tgttcttctt gtaaacacaa tcatgagtta caagttgctt 180
atgtaactaa aatttctcat ttgattgcca atgatgagat tgatattgga aggggaacta 240
atcaaattga cacattacag agactgggag ataccagatg gagttctcat ttcaattcga 300
ttgggtattct tttatgcatg tataatgcat ctacagcagt tcttgaagaa ttagctgcta 360
aatgatctac tgctactcaa tgaggtatgc tactgattgg ccaaagcat attgtcattt 420
gatgtatttt actctatatg tatgaaa 447

<210> 18824

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18824

agtgagctga tcatttgtag ccagtgatga gaagaggaaa gggtgcgtan tgaacttacc 60
ttaagttttg tcaaggaaga aagattagtc aaccactctg catccttaga tttgacatca 120

aaattgccac caagtccaag agtgtgcaac aaaggaagat tcccaacctg gaaagggagt 180
gctcccgaaa atgaattctc accaagatca agatacctca actgtgagag attttcaagt 240
tgatatggga gttccccatc tagatcatta tcaacttagat caagatattg taaatgcgta 300
aggtttccaa gttgataagg gagttcccca tctagatcat tatcaacttag atcaagatat 360
tgtaaattgtg taaggtttcc aagttgataa gggaattgtc catggagata aa 412

<210> 18825
<211> 378
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18825

gtgttgctac acttgggagag cgagcactag cagtgtatat ttcacattcc ccaactgngc 60
ctacggagcg tttactaggt caccatctt aagcttcctt gacatctaca atctgggtca 120
ttgcgtgaga gtgatccgc aggtcagacc aattggtggg tcttaatgca caaaaataat 180
gataaaatgg atataccttt gtaatatgac gcatgagatt gcaaggggat tgcggggaga 240
tacacaatta caggaagaat agagcagact aatgatgaa taactgctgg aaatatctac 300
gattgccaag cagcagagc tgccatatga cccagaggcg accccaccag atgcaaagtg 360
aacttccttc taaatatt 378

<210> 18826
<211> 410
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18826

agtcttccca atgtcttcaa gcattaaatc aatacaatga gctgcacaag gagtccaata 60
aatgtttcct tttgtcctct aacaacttac ctgctaaaac atagttgctc ccattatcag 120
ttacaacttg aacaacgttc tcttcccca cttcctccac aatagcatca agcaactcaa 180
aaagcttttc acctgtcttt acaaaatcag agtcatcaac agacttcaaa aacattgtac 240
caacttgaga gttaataaaa aactaatgat gcatctttgt ttccaatcag tccatgcac 300
ggacataata gtacaacat acttgaccca ttgctccttg tggcctttca tcaaattntc 360

agtgtattca acttccttct tcaggagtgg aactctgatg tcatgatagc 410

<210> 18827
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18827

tctaaactntc taagttgtaa ttgcagttca gttatgttta tcaacttgatt attgcctatt 60
 ggtaatgact aatgaatggg aggcgccatg ttttctttgg gggcgggtggg gagtgttcaa 120
 acggcgccac ttataaagaa ggggctaata ggctatatat gcatcagtgc ctgcatctgc 180
 tggatccaaa ttttagcata tcatttttgc tggcactttc tttctcgtac cttttatttt 240
 tcttacaatg ccaatttccg aatccaaaat aactagccct cttctgctct ttgcacataa 300
 taataatgat atagtattat taatagtaaa ccaaaataag aagacctacc ttgggttcaa 360
 aacggacgtt ttaccaaca gcttactttt acctaccttc atatgaataa agaaatgagg 420
 atgggtntaa ctaaattctat gagaagtggg t 451

<210> 18828
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18828

ttcttccaaa gttttactca aattgaacct ttacatcaa ttgtcaagca ctcaatttaa 60
 aaaaaaatag aacgttttgc attagttgtg ttaataattg ataaaaaaaa tatcaatttc 120
 gtcaaataat taatgaatat gagaatatga ctaaatagagt ataatttttt catttcaaac 180
 aattcaagga ccaaattaaa ccttcaatat gattaagcca ccacttatat agttaaatag 240
 tataattatt gtaatttatt ttttgcattt aatacagtta aatctatatt aaagaatagt 300
 tcatcgaaaa gtcttaaata gatatcctat attgttgaca cgttacttan acatgggtaa 360
 tttggacttt tcaccaatgc attccatctt ctcctttctt tntctt 406

<210> 18829
 <211> 459

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18829

tcccacaatt ggatcatcct ccagactctg gtgttttggc taccctccaa acctctccat 60
 catgccagac aacagcatct atgacaggcc ctttatcatc atagctctaa aacataaaac 120
 agcatttcct tttcaatgta aggaattcaa gttgaaaaaa ttctcagtgg gagcacaac 180
 acaagtataa atgtctcttt tagtttgagt cattgagacg agtcagaggg agaaaaaaca 240
 agaaattcat tgtttatgtg tggccagggtg gaaaaaaaaa ttcaacatta tttcatacag 300
 agacaatcat tctatcaata tcttcattcc accacttatg agtgtcctat aatgatataa 360
 attcaaatca attgttcatt acctatttca aggacaggan aagacacaaa taccgaaga 420
 gcaacanagg aagatgacat gctcagcact cacctcaga 459

<210> 18830
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18830

tgtttgtcat cttactttca tgtttaaata accctaacac ttacaacata tcgcttgcta 60
 gctactacaa caaaaaacaa atttacaaaa cttttaagac aaaattagtc caatggctaa 120
 caatttctct ctattttttc ctttcattca aacttgtttt ctccatcttc atgggttgctt 180
 ccatctcatt catctttatc attagctcat tttttaagca atccaagaat aactctcttc 240
 tcatgaatat tcatttcaag atcttaccaa taaaaaaaaa gttacatcct cttctatccg 300
 atacatgtaa aacaacaaaa aatgaaccag ttacatcctt atccttagca naccattac 360
 aacaaaatcc anagaacaac caaaaaaaca caatgtagtg gtgcatacct 410

<210> 18831
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18831

cttaggtgga ttgactttt aaagctgaca taattatatt tgttatnnnn atnnnnnnnn 60
gtcaaataca agaataaaga gcaaatttta caaaggggtgg cttttaaaat tgtgacatga 120
tgattaattg tcatctttta attattttac caattttaag aataaagaga aaaatgttta 180
caaatgggat ttactctcgt gcatcccggtg ctcatgcata ttgtattctc ttgattcatt 240
gttccatattt tatgttttta ttgaattagt ctttctttat gaataattaa atcagtattt 300
agttagcaat tccaatatat aatagactaa attatactct attagtcggt ttttcaaatt 360
gcatcccata cttttcatgt tttcacccac aaaaaccctt tatttgtag ctctcattac 420
attcatgtat catttcagtg tttaatca 448

<210> 18832
<211> 399
<212> DNA
<213> Glycine max

<400> 18832

agcttttgaa acagttttga gatactgctt gcctcataag ccctgttagg ccttcagcca 60
ctaaatcaaa gagaaaagg gccaaaggat ctccctgtcg cagccctctt tgaggtttaa 120
actctgaagt agggcttcca ttaacaagaa tagagatgga agctgaagag aagcaggcct 180
ttatccatct aatccatctc tcatgaaacc ccattctctt catcatataa atgagaaatt 240
gccacgaaac agaatcataa gccttctcaa agtctacctt atagaccata caagacttct 300
tggtatcttcg agcctcctca atcacctcat tagccaccaa aactccatga agcaaagtgc 360
tgccctttat atatgttgtc tgcccttcat ctataagac 399

<210> 18833
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18833

tagacgaaga acaagagagg ttagatgtaa aagaatagat acgcgagcaa aataggggttc 60
gcatctgata taattttaaa tgtaagtcca acatcagttt tcaataaata aataaaaaatc 120
gatgttaaca aaatgatggt aacattaaca tcggttttct gcaagaaacc gatgttaact 180
tatcacacat taacatcaat tttctaaaaa cccgatgtta acgaacttac gttaacatcg 240

gtttttccaa aatcgatggt aactaatāaaa tgttgacatc ggtttttcaa gaaccgatgt 300
 taatgaaaag tcacttcatt aacatcgaat tttcaaaaaa ccgatgttaa tgaatacaca 360
 ttatttgcaa ttatgtcacc gcatttatct taacatcggt tntgtcaaaa atcgatatta 420
 atttgccgat gttaaactctg ctntgtgtag tagtgt 456

<210> 18834
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18834

agctttctccc ctaattttct ataaataggg ggagaagtga agtagaaaag gggttcagccc 60
 ttttggtaat tcagaatcac ttaaaattag tgagaaaaat tggttccgtg aagaaaatcc 120
 aagccgaggc gcttncgtaa cgtttccgtg ggtgatttcg tgaaggtttt cgaccgttcc 180
 tcgacgttct tcattcggtc ttccgcgttc ttccgtcttc aaccggtaag ttccctagat 240
 tgaacttttc aattcattct atgcaccctt agtggtcctc atttgttttt acgtgctttc 300
 atttacattt catttacttt tcgtaccccc ttttgacatg cttaagtcac tttatttaag 360
 tcattttctct gctaactctaa aaataaaata aa 392

<210> 18835
 <211> 450
 <212> DNA
 <213> Glycine max
 <400> 18835

tctttgagaa aaattttctg agaagctaga gtttagttac acacacacct ctcataacta 60
 agctcacctc cttgagaagc ttccttaaga ggattcctaa agaagctaga gcttagctac 120
 acatacctct ctaatagcaa agctcacctc cttgagatga gaagctagag cttagctaca 180
 cccccctat aatagctaag ctcccccca tgacaaaata catgaaaata caaaaaaat 240
 ccctactaca aagactactc aaaatgcctc gaaatacaag gctaaaaccc tatattacta 300
 gaatggccaa aatacaagac ccaaacgaaa ggaaaaacct attctaatat ttacaaagat 360
 aagcgggctc atacttagcc catgggctca aaatctaccc taagggtcat gagaacccta 420

gggccttccc ttggatctct ggtccaatct 450

<210> 18836
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18836

agcttctctt ggaccctagg caaatcctca attcatcctt caagatcaaa ctatctactc 60
atgattgggc cctttcctct ctccggagct taagctcatt gttactgccc cacagagccc 120
ctcggaattt gttctggcca tgttttccc taagggccct tttggtctct tgttccaagg 180
ccttgggtggg ggctatatctt acgtctctca gtttggcatt ctcttttcgg atccttatag 240
ctgttgattt gaacttttct ttggctgttt gggctttctt gagttcttcc ctaatggcct 300
gaacctcttc gccctcctcc gaagctntaa cttccacccc cttagt 346

<210> 18837
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18837

tgaccttggg ttagacatga ttgatacatg atttgtttct tgtaggattt gatttgggca 60
agattgggatg aggggaagtg tggttttcga aatctgcgtt ttgtgcagat ttttgctgtg 120
aaattgtgca gcaggatttt gcacaagtgc agaaaaatac taggcatttg ctggttgtgg 180
aaagagcagt gcagaatgag ttctggatgt ttgctagtag atcccaacgg tcaaaatgta 240
ggcttatgca ctatagactt ccagtaaaat tttggagtcg atccaacggt taacgaattg 300
gatcgaagga attgttactg gggctcttaa gtgagaaaag ctgtgattnt ggttgatgtg 360
ttgagcagag ttttctgcct ttgctctgtt ntgcttggct gtgatagctt gtgctgtttg 420
aatgttgttt tgctttgatg ttggggaag 449

<210> 18838
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18838

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agcttgttga gtgttttgtg aatccttggg tgggaaaagt taacaaaacc aagtacagtg 60
atgcttaciaa aaccacaaat ggtacattgt tgttgttaac aaaactgtta gagattggta 120
gtatactaag agagttgcca ccttactaca gaaagcaagg catccataaa ctcaccatat 180
ttgcaaaaaa acaaggcaga tataacattg caattaaaaa ggctgatata acattgtttg 240
atattgtgca gactttaatt acaacaactg gtaaaaactt aatgagtgca ttacaaggcc 300
tctgaattaa acattcagat agaaccangt tcctaaatta aattagccta cacaaaatgg 360
aaaatagagc agctataaca tagttgtgcc caatct 396
```

<210> 18839
<211> 395
<212> DNA
<213> Glycine max

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<400> 18839
tcaagtgtat ccttattatg ccattgagaa actgaattac ttttatgaat gttccaagct 60
aagggttttat tggagatatt ccttattgct tagggttgca tatcatatcc caaaaaataa 120
taaattttatg attaaataat ataaacctat taaagtacca agaaatagac ataattttta 180
tatatcatct ctatatatta taatatcttt ccattttttt acaactatct ttcaatattt 240
ttaatactca ttgatataac gagaaatggt ttaaaaagtg aaatattatt atatttgggt 300
taaaatattc ttatttttaag catattacaa tggttgtgtg gaaatggatc acaggacaaa 360
tcaatattac aaaagaaatg gtcatgggaa tatgc 395
```

<210> 18840
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18840

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agctttgaag gcatctacct cttgaagagg cagaggttaag ggcataggga taagtggtag 60
aggtagagga cggggagatc aaacactatt agaaaataca ctttcaacat cggttatttg 120
gggccttcta catcggttgt aaaaccgatg ttgaaagcat cgatgttgaa tgtattgttg 180
```


ttaacatcgg ttttaaaaac tgatgttaac ataaaaatat taacatcagt tttataaata 240
 accgatgtta taaagaaaga agtacaacaa aataagtgtg tgcgtgaggg acgttggcat 300
 cagttttctg taaaaaccga tgtgaatatg ttatattaac atcagttntt agaggaaacc 360
 gatgtgaacg ttcatcattc atgcacctat tntgctatag t 401

<210> 18841
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 18841

taataactcaa gctttgcaga agatactgag aaatttaaca agcattatgt ggttatgttt 60
 ttcattatta tttgtaatgt gagttttagg gggaatgtat cttaggtaaa atgtgtaata 120
 gcatattttg atattgtaat tgttgttttg cttaaagaatt thtagtaaga agtaattcgt 180
 tgctactgtc aattacccat ttcaattaaa tataatttgt tggtgaaatt tgctactgaa 240
 atttgtagtt tattaaatat aatttgttgt tgtataactt tttgaagtta ttgaagtagc 300
 actaaactag gtggctctac tccaactcca aatccaacac agtgtataat ttataaaaaga 360
 aagagaagaa acatgacatt atatcaattt cacataatgt ttgacatccc aaagtgtggg 420
 agttaata 428

<210> 18842
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 18842

agcttttatg gagttccatg cttctcatta gaaggaagga actcccgagc agatgacttt 60
 actgctgcaa tatttccatc agatgaaaaa cgtgagctgc tattcaagat aggttgcata 120
 ttaccagcaa ctaaggtaga tagtagtacc ccactctgaa ctagcctact ggcataatcg 180
 atggctggag atacctcatt cacatcctgt acaagaatgg gttatgcacc catgctccct 240
 acaacatttg tagcaccat ggtatatttt gtattttgaa aaccatcacc atctgtatag 300
 cttgaagctg aaattgcaca aacatcatatc ttttatggga atgaaaatga ttcacccggc 360
 atagaagctc tttgtgagta ccttgaacta 390

<210> 18843
 <211> 418
 <212> DNA
 <213> Glycine max

 <400> 18843

 tgtccctcat tacagcacct gcacctatgt tgggtgaagt ctccctgata gcaaagtcta 60
 gtgcctctgt cggtttatgc attttcctct tagacattat actcatcgat taacctgcac 120
 caatgtaagg aaaacacttc aaataaagaa agctaagata aatatttaca aagactaaac 180
 catacaagga aatgcacaat tatttacctg ttgtgtttaa agaagcattc gattcagaac 240
 aagagtgtga ctattgcata tatattctaa atttgctcaa gagaaacatt ccatccaagt 300
 taaaggaaaa agttgagcgt gttgtgcac atgtatgtca gtagaaatca aatgagactg 360
 ttatgtgttt aaatgatctg gtttataaat aaaagtttct ataagagtga atcatggt 418

<210> 18844
 <211> 404
 <212> DNA
 <213> Glycine max

 <400> 18844

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 atatacctgt tgaaatttta cgaacaatgt cttataataa ctggatttta tcaaactata 120
 gtaaaagtat tgaaacaata ataaacaaat gattagttct gatctgctgt caatgaaact 180
 ttatcagaaa cataacaaat aaagtctatt gtattgatat ttaaaccaat aaaaatatat 240
 taaatgttag aaaataaata aatcatataa atttaaaaat aaataactaa tataaacaaa 300
 aaaaattttt tattaataa tattcattaa aaaatatata aaggataatt gaccaatatg 360
 tccttagtcc aagtggaata gcataagatt tttgtaagtt taat 404

<210> 18845
 <211> 417
 <212> DNA
 <213> Glycine max

 <400> 18845

 tattttgttc tccccattga tagcttcaca tgcaaaaccc tttctactac ttcactcttg 60

tccttgggat cagaccctag caagtccacc atcaaatttg gggaatgccc ttttgagtac 120
 ttgaaagggt ccaatggaag ggtgttgata aaggatcatgc ccgagttcat cacaaggcta 180
 atcaatagaa gtaaaagacc ttgttgcccc agcagcaacg acaacaacaa cttgctatgc 240
 agcactcctg acttgagaaa aactaccaa atgctagtga aatccaagga ccaatttttg 300
 tcacctaagc ttgaaaccat ttcggaaaac aatgttaggt tttcacctg tagatttata 360
 tacgtttaga aaggaattaa gataaagaga tggcagaggt tgtatctact agatagt 417

<210> 18846
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 18846

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 aaaaaaacat aactacaaat gtctaattta ctcatgtaaa aaaaacataa cataactacg 120
 aatgtctgaa ttcaacactc ttgatgaagt ttgatataac ttttggcata acattgccaa 180
 aattgtatcg tttttttagt agatgaaaac agtgtattgt tgcacacaat ggagaagggtg 240
 tgttatgagt acaaattggt gacaagtctt gacggagttt ttgaaggata acttaaattt 300
 atctaataa gatgaggttc aaaataggat ttaaaggaca ataaagatat aacaaatata 360
 agattcttga taggatttac agagcaataa tg 392

<210> 18847
 <211> 391
 <212> DNA
 <213> Glycine max
 <400> 18847

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 aaaatcttta gaaataagtc acttgaagaa ttgtgacttt tggaaatgta ttttttgaaa 120
 tcagtcactg gtaatcgatt acacatcaac aaatatgact cttcattttg aattttgaaa 180
 attaaaacgt ttagaagctc tggtaatcga ttacaaatgt tgtgtaatcg attacactag 240
 tttaaaatga tttaaaattg ttaaacacaa gttgtaactc ttgaaatttg aaatcttaac 300
 gttttaaaac actggtaatc gattactatc ttctgataat cgattaccag agagtaaaac 360

tcttttggttaa tgatcttgtg aaaacttctt g 391

<210> 18848
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18848

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 gactgggttca actccattgc cggagacgag atgtcccagg tactccagtt gggactgggc 120
 aaaagcgcac ttgggtcggt tcaaggagaa cttccctgaa agcaagagct tgaacgctgt 180
 ttcgaggtga cccacatggt ccgccatggt ttactatag accaacacacat catcgaagaa 240
 gacgatgatg aatctgcgta agcagggctg aaagagctga ttcatagtag cttgaaaggt 300
 tgatagagca ttacacaaac caaagggcat tactcagaac tcgtaatgcc cttgatgggt 360
 tctgaattcc gttttgtgaa tatcatcatc tttcat 396

<210> 18849
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 18849

agcttgtgac tcttggcaat ttttttaaaa ctagtcactt aaaaagttgt gacttttgaa 60
 aaaatcttta gaaataagtc acttgaagaa ttgtgacttt tggaaatgta ttttttgaaa 120
 tcagtcactg gtaatcgatt acacatcaac aaatatgact cttcattttg aattttgaaa 180
 attaaaacgt ttagaagctc tggtaatcga ttacaaatgt tgtgtaatcg attacactag 240
 tttaaaatga tttaaaattg ttaaacacaa gttgtaactc ttgaaatttg aaatcttaac 300
 gtttttaaac actggtaatc gattactatc ttctgataat cgattaccag agagtaaaac 360
 tcttttggttaa tgattttgtg aaaacttctt gt 392

<210> 18850
 <211> 390
 <212> DNA
 <213> Glycine max
 <400> 18850

tcgcaatgct ttcactgatt gcggtagagg ccactcatgt atagcctgta acttttctgg 60
 gactgggttca actccattgc cggagacgag atgtcccagg tactccagtt gggactgggc 120
 aaaagcgcac ttgggtcggt tcaaggagaa cttccctgaa agcaagagct tgaacgctgt 180
 ttcgaggtga cccacatggt ccgccatggt ttactatag accaacacacat catcgaagaa 240
 gacgatgatg aatctgcgta agcagggctg aaagagctga ttcatagtag cttgaaaggt 300
 tgatagagca ttacacaaac catagggcat tactcagaac tcgtaatgcc cttgatgggt 360
 tctgaattcc gtttgtgaat atcatcatct 390

<210> 18851
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 18851
 agcttgtctc tgggccctct ctttaaattc cttgtttcgt ccatttgggc tcccttctac 60
 tttatttggt aatgattaat ggtgatgggt atttatatat ccatttggaa aatgactaat 120
 agagtctttg ggtagagtt caactgaaca taacctactt tttttaaaaa aaataaaatc 180
 tactagtgtt attacttctc tattttgtgc attgaggtgt gcaaacagac attttgtgct 240
 tgcgagtgtg tttgttttac acaaatcatg cgttccaaag cacattgaac aagcgatttt 300
 tgtgagagat ctttgggggt gaacatgatt taatgacagc ctgaagctat gtttgttttg 360
 gcgtttacca cattcaacg 379

<210> 18852
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 18852
 tgcactgccc aaagtggaca acctccaga aaacgttgat tccaccattg atgtccctta 60
 tgatgtcggt cagtatctca aaaaagccta cgatgatttg aaagaaccct tgacctgttt 120
 tctcaaactc tccaaagttg attggcattt ctatgacctt attctcttct gggcagacac 180
 tttggattct aaaattggta taaagagttc cttttataac atctgtactt caccatgtat 240
 gggcttcacg ggacccccct cagtttggtt gaccttgata cctcaataat cttaagaggg 300

ataggcttag aatgcagaaa aagcaacaac aatcaattta acaatgttct ttaaacaatgc 360
aagacacaat tgattgcaac aaaataaata agataaggga agagagaatg ca 412

<210> 18853
<211> 146
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18853

atttcacacc gcatatgggtg cactctcagt acaatctgct ctgatgccgc atagttaagc 60
cagccccgac acccgccaac acccgctgac gcgaaccct tgcggncgna tngaataata 120
cttctataaa atgatgctat acgacg 146

<210> 18854
<211> 342
<212> DNA
<213> Glycine max

<400> 18854

tagcttggtta acccatggaa gctcctaata tctccacac tttttgggggt gggccattct 60
tatatggcct tgattctctc aggggtccact tggaccccat ttctaccaac taaaaacatt 120
aataaaaacta tattatctac aaaaaaagta cacttctcta tattggcata gagagtgttt 180
atcctaata ctgaaagaac ttgccttaca tgcctaagt gatatatgct ctactatac 240
actaaaatat catcaaaata aacaactaca aatctaccta taaaatgcct taatacatga 300
tgcataagcc tcataaatgc gcttggtgca ttattgaacc ca 342

<210> 18855
<211> 421
<212> DNA
<213> Glycine max

<400> 18855

atgtgtaaac taacaagggg ggcctatgcg atttttagcta gtgctaacaa gagcacacgt 60
cctactagct caaatacaac acatatacac acagtgtaaa atggaacaaa gacccacgt 120
cctatagcag gatattgggtc tagacaatct atcccaaaca cgacttagcc cccagttagg 180

agttgcaata ataagacatt aacataagct gatagacgaa gaagcttaat tttaaacgaa 240
 aaaacacaat ggtagaagtg cgaatagaca ccctaaaagc aggcgggcaca aggatgaaca 300
 tgaacacaaa ccagtggcct acaagaccca cgacatacta gcttatgcac aaataaggat 360
 gattgagtga ctcaatacat ccctacagat gagcctgaac atgaaccaa tgtccattgt 420
 t 421

<210> 18856
 <211> 478
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18856

cgaaactgaa cctgatgctt gagaattcga aactacaggn cgaatncacc tcggacctcg 60
 gggatcctct aaggccaacc tgctggcagg tacccttttt gcggaagaag gaaggaggcg 120
 ccggaactca tgactttcct tggccaccag gggaggagga tcaatggtct ggatggtgct 180
 cttataaaaa aaccccatgg aatcacctgc tgccgtggat tttaagcctg atcggtattc 240
 cgtccccctc ggggtggcat atgctgttat tgcttgaacc tttgcctagt aatgggttgtg 300
 ggaccacat ttgatcggcc ttgcagatgt ttaacgata ccttttgggg tcttacccaa 360
 actacacact ttgcatttgg ctgagttatg gcgcgatata taacatactg gatggcatcc 420
 ggttgtgaat cgcatactcg gactctttct gggggaacta caggacctga atacactg 478

<210> 18857
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18857

ggacacttag aatctcagct tctaaatagg anaaaacaac atttaagata tttatagctt 60
 gatataacat ttattctctg caagcgaaaa aagtccttct taataattaa aataaacctt 120
 tttcggaata atgatacgta ctcttctaaa tggttttttg agaagacact gaataattaa 180
 gcattaagta cttattttat agatattcgg ctcaattggt attgaaagca aataaagtga 240
 aatttattgg agtagtacat aaagggaag gtggggctgt acgtgaagcg gattgcccat 300

gggccatggt gactatcact atcaaagctg gggtgcgcca cctccgcatg attcatatat 360
gaaaacgaaa tgcataatc ttctcttggt ttcaatgaaa ta 402

<210> 18858
<211> 400
<212> DNA
<213> Glycine max

<400> 18858

agcttttttaa aaggacaagc accattgcta attccgcgtg acatggcatg cagtgggggtt 60
tcttataatt gagttgtggt ctcaaatac aacattacct atgatcattt aaactcaaga 120
cagaacaaga agactacatg catggaagat aactttactc gcttgatgga aaactttacc 180
tatgatccta tggaaaattc ttgatgtcta gggattgggt gaggcacatg tgagccactg 240
caattgaacg aaacactgaa attatttctc gttccagcct atacaataat cttatagggtg 300
aatccttaag tttctatata tcattgacac ctttcctggt actggtggat tgtctttcta 360
ttttaccact tttaatcaag acaacaaaaa taaactagac 400

<210> 18859
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18859

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tgccaattag aagcaagaaa gtgaaaccca gataagaaat tggagaagaa actatgccat 120
tacatcttgt tgcaaagcca gttttctgtc tttgcttgaa gtttttccac ccttaacagc 180
attatttgct cccctcgcg agcttccccg catctctgcc ttttcattca aggctttaga 240
ggttagaatc aaactatgca attaaaagca cagtntgaaa gtacgcgtat gtcttgtgcc 300
agattcgcaa gtaaaaatgg agaaaaaata ttgaaagctt gagattacag aacccaaccc 360
aatcatgaat tatgaaaata aagggtatct tttcttttcc tcaattcatt cccttattat 420
gatacggtac ttaat 435

<210> 18860
<211> 400

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18860

 agcttattgc cacatcactg cactcatttt gaatatgtgc tgaaattaaa gcagtccaca 60
 tcacagtgc ttttaagggtta gaaaactccg acataaaaaga attcgctacc acataaaaaga 120
 cccctcttca ctatagcaca atggatcagc attcctaaaa ttaccttggc agaacccttg 180
 caaacatcta tgaggcttgc aaatgtaatc tcagatggct tcagtcccaa tatctgcac 240
 tcataaagaa gattaataga ttcttttgtg ttttttagag catatcctgc aatcagagca 300
 ttcacagaga ccacactctg ctccggcatg ctagaataaa ttntatgtgt atcttcgatg 360
 tccccgcact ttgaatacat gtcaataaga gaacttccag 400

<210> 18861
 <211> 406
 <212> DNA
 <213> Glycine max

 <400> 18861

 agcttatcct gtgttttcta cccgttattc tgtgggtaaa cattataatg atttctttct 60
 aaggcttcgt taacaatggg gttcgactaa gttttccttt cacttgatga ttttaatttt 120
 atcagtgcag tgaagtatat ggggaatggt ttttaacagaa ttacccccca actcacagtg 180
 atatatttat gggtatcaac caagtgtgt aaatgactgt tgccattggg aagggatgtc 240
 taagctgctt ctaacttttc cagattagcc tttgttggtc tataaatgta atgtcatatt 300
 actcatgtct gaatgctatg tactgtgttc atccaacggg ccattccgta tactgcagcc 360
 gttcctatct ctattactta acgaagatta gatttccagg atcact 406

<210> 18862
 <211> 393
 <212> DNA
 <213> Glycine max

 <400> 18862

 agcttatctt cgatctcaaa aaaacaacac atttctatatt tgtgaggatg aaaaacatac 60
 tgaaaatttt gcaaggataa attccgaaca ttttgatatt tataagaaca aaaaatatat 120

tttagccttg tttttattgt taaaaaaaaa aaagagaaat gctactaaca ttttcttta 180
cacactcctt catacacact ttctcttatg tgttaaaatg tatttagttg aagaacaagt 240
tccacaaaat cttgaacctt ccaagtgtga tggttgggat tggatatgagt gggatcattt 300
gccacacctt ttggttgggc ctcttgagaa aatgggtcaaa ggagctttcg acccatttcc 360
aatttgattc tggtaattgg tatgaatttt ttt 393

<210> 18863
<211> 413
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18863

ntaacaaccg aatattcttt gtcctaccaa gccactgttg tttctattct aatcagaaga 60
tatgttggtt gatttgctaa ctgattaaat cttaatcatc ttacaaacaa atgtgaaatc 120
taagcattta gttttttgtc ttagagtatt caagatgttt tgagagcttt tcaaacttta 180
taagaatata caaagagttt tctacataaa gaatttgaat gatagcgtgt aggttcgtta 240
ctcatttctt caaagcatct agtatttata ggttttcatt ttcaagtgtt tgttgtttct 300
aaacgattat aattttcctt tgagcttgca tctgaagctt gtggttatta gatcatttaa 360
tgcttgcatt aaacgcatat cctgcttcat gcaggaaaac cactatgatt ggc 413

<210> 18864
<211> 362
<212> DNA
<213> Glycine max
<400> 18864

agctcttctc catctttaat gtttctaagg ctgaaataga gaaacaatgt gaataacaaa 60
ttaagatcgt gaaatcacat aaaggtaaag agtatgttga ttcacgaaag cggtcaggca 120
tttgggtccat gcgcaagatg tccttacata catgggactg attgccgcac actatgcttg 180
gtccttagga tcacattgat gtgacggaca gaatatatcc aactttaatg tacatggtga 240
aatgtgcagg gagtaatgcc actgttcctc tatacttgtg gattaatgct cctatgacag 300
ctatgtatgc attaagaaga tttctcagca atgttatctc acatacacct tgtgagttat 360
tc 362

<210> 18865
 <211> 321
 <212> DNA
 <213> Glycine max

 <400> 18865

 actcaagcta cttgaggaga tgtatocaca aggggaaaaag gtggacactg ttttgtcttt 60
 gcatatatca atatcagtat gcaatggttc tcccacttat tgatcctgta tgaatgcagg 120
 ctgagacaac atgggcacta acagtgctag ggtatatggc aaaattcgat atgggaatat 180
 tagggtaagc aacgacatga gaatcagagt tgcttggaaat gctggatgct gtatgaccct 240
 ctatgcatag ttgtacggat cttatttctt actaccatgg gtcatatatt gctgatgggc 300
 gcattttgttg aactgagctg t 321

<210> 18866
 <211> 379
 <212> DNA
 <213> Glycine max

 <400> 18866

 tcaagctttc atcaagtggg atcagagcac aagagcttta agtaggtgct ccttaaacct 60
 ccattaattt tttgctttac cttctcttcc attgttgttt cttcattttt ctccatgtat 120
 ctctcacat gtcttgtgat aaatgttggt aacatgattc tttagagttt ccaccgatta 180
 aatttgctat agaagctaga tttgattttc tatggttcaa atttcttggt cttgttcttg 240
 aacctgaat tgagttgagt ttaggttctt ttgagttctg tcttgttatt atttgtggct 300
 aaaacctata ccataaaatt cttacaaaaa cattaaagta gaataaaacc tcataaatct 360
 acagtgactt gttcaccta 379

<210> 18867
 <211> 342
 <212> DNA
 <213> Glycine max

 <400> 18867

 tcttcttaag gaatcttctc aaggaggtga gcttagttat gaaaagggtg tgtgtagcta 60
 aactctagct tctcaaggaa gttttctcaa agaagcttct caaagaagtt ttctcaagaa 120

agcttctcaa ggaagctacc tattctataa atagaagcat gtgtaacact acgtgtaact 180
 ttgatgaatg aaagtcttat gagatacact tcaaagttcc acttctttcc ctcttttatt 240
 cccctcaatt tgtgctcccc ccttctcttt ttcttttcct ccattaaaag catcctcttc 300
 aagcttctta tccaaggcaa ttcttggtgg tgaagctcat tc 342

<210> 18868
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 18868

agctttttcc tatggctgag gccaaatgca gtgttaactt ggtttgaatt tgaggacctt 60
 atgagggcca ccgacaatth ttcacctcag aacttcattg gaagaggtgg gtttgggttg 120
 gtttacaagg gcattctacc tgatggctca atggttgctg tgaaaaggct tgaagaatca 180
 gattctcaag gtgatgcttt gttctgcagt gaggtggaga ttgtagcaa cttgaagcac 240
 cgaaatctgg taccgctaaa aggggtgttg gtggttgatg aggggaatga taatcacaat 300
 tctgagtacg gaagaaggta tctagttcat gaatatatgc caaatggtag ccttgaagac 360
 catctctttc caaccaaact agacaatc 388

<210> 18869
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 18869

tgttaagctc tcaaattggt acaaataaaa tataagcatt ctattattht tcaactcgta 60
 gcttgacggg tcaagtattt tacctgtatt tcattaaatt ttttaaatta ttttataagc 120
 aatttcmeta ataaataaaa tagaagmeta cttatttcat gctggaactg tttgataatt 180
 cagatgaaac tgaacactth aacttcagtt aagaaaccac tgcccatgct atatctgtat 240
 tggaacatat tctacaaatt taactaaata catatathh taatatgctg catgtaaact 300
 tacatgtctg acttccgacc caactgttht tgtggtaaaa taatttgcac cgaatgggaa 360
 tcatcagtg c tggggattgg gtgactcatt atggctattg ctcttgcaac ccta 414

<210> 18870
 <211> 366
 <212> DNA
 <213> Glycine max

 <400> 18870

 tgctatatat atgatgtact ttctaacatg aaaatttctg gactgattca tactgaaatg 60
 gatcagcttc ctttctttct gacggatctt gtacaaataa agacttgaag ggtgaaaata 120
 tacctttctt ttacttcgct cagactatta tattgaatat tttttcctac cctcggtttt 180
 acttgggggtg ttctcatgt cttgaaagggt ggggtgagata actagacaca acaacaaagc 240
 ttcatcccat cagacgaggt cgattacatg aatcacacga caccattttg acacggctaa 300
 aacccatagt ctcatatat cgaaataaaa gtagacatct gtttttctct tctgggtactg 360
 cactat 366

<210> 18871
 <211> 413
 <212> DNA
 <213> Glycine max

 <400> 18871

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 tctaacttca aagttttaac tttgaatgaa atgtatagtt aaaaatgacc tagcctagat 120
 tttaaatttt gaatcaccaa ggcttttagta atggacaatg aaatggccat ttatgcattt 180
 acttttttagg atcaacatat ttgacatgaa tactctacac taagtgtgtg ttggtatagt 240
 ggtcttagca gggaaattgt atttcaaaag gatggctgtg tcatcaaaac tcctaaattt 300
 gggcagtttt cctcttaaata aacaagttaa caaagacact tcagggactc taccctgtaa 360
 gccacctacg tcatgtcctg ttttatttat aaaatgcact aaacatggat tat 413

<210> 18872
 <211> 396
 <212> DNA
 <213> Glycine max

 <400> 18872

 tcaagctttt atggatttgc acgcttcaca tttgagtatc tctgcggctg tccggtacat 60
 tatttctttt agtttggtta ttgtctaaat tattttttcca gccaatataa ttattaaacc 120

ttattgtttg gtttactttt attttttact taaatggcaa gttgatattg tgtgtttcat 180
 taaactcttc acggctcaaa tgggtatgaa caactttcaa gagttagtgc atacttcata 240
 gatatgatgg tacatttgat gattaaactc ttgcatctct gtgggtttatt ctttttttgg 300
 cgaccttgta gcatctatta ttgccttgag gtagagggaa tgaaagtctt ggagtacaga 360
 tctagaataa tgtaagactt attatgctaa taatgt 396

<210> 18873
 <211> 413
 <212> DNA
 <213> Glycine max
 <400> 18873

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 gccctacttt tcgaggggca actcctacct tatgacgact atcccgggca agacgatgag 120
 gaaggagata cccatgttgg cccctgctc cacctcaaag attcgtcccc ccatgaacta 180
 ccccaaccga acatagtccg ccatatcccg gttccccca caccogtgaa ggaatctgtt 240
 cccttcgcag aagataaggg aaagattgag gcgcttgaag aaagggttaag agcagtcgac 300
 ggccttggca attaccatt ctcggatttg gcggatttat gtctcgtacc caacatcgtc 360
 atccctccca agttcaaagt accagactct gataagtaca aagggaacgac atg 413

<210> 18874
 <211> 396
 <212> DNA
 <213> Glycine max
 <400> 18874

ctctagcttt tgaaagccct cctgattctg caatacatTT ctgactctat ggcattgacat 60
 gcagtgcata gattggacct cctgatagtc gttatcaaag aatagcttac acatttgtgc 120
 tcgagtgaag cagctgctgt gagactgtgg tttagctac tttccttgat acctgtctta 180
 tgattaactt catctaactg tatagatcac attaatgctt actctttgtc tagctgcata 240
 ttctgggaaa acaagtgata cgtacacatt gttcatctt tcacatcatg caatcaatca 300
 attataatgc atacaccttt cagcagtaaa cactgcatga tttaccactt gatgacaagg 360
 gagttgttct ctgatgcttg aggacaagca taacta 396

<210> 18875
 <211> 309
 <212> DNA
 <213> Glycine max

 <400> 18875

 taactgtgca tgcggtggat caagcacgat ctccggcaat gtcgactgat gatcgtgtgg 60
 ctccagtact tcatcactat cttccataat gagcacgaac aaggaggaag agcacttgtg 120
 gccgcgtgaa tactttttaat cacattggat gcataagccg ttctctgtgc acatagctag 180
 ttctctcagc gtgaggcggt taaaaggaac tgtggaagag ttggtacgcg ccggtgtctg 240
 taataatgga ggagtagtta aagatgtata tgttgagggt tgtcgagagc ttgaggatgc 300
 tcctgtggt 309

<210> 18876
 <211> 373
 <212> DNA
 <213> Glycine max

 <400> 18876

 ttgctttaat atagctgctg ttacaaacac gctaaaaatc atttcataca attctctcat 60
 tggaacagca aaagctatat agacaagaga tgggaagtgc tttggatagc tctatccatg 120
 actatattgga agcatagaaa ttcagtgggt ttcaataacc agattttcaa ccccgaaaaa 180
 gtcattggatg aagctttatt ccacacttgg tcatgggttaa aatgtatgga caaagatttc 240
 catattcatt tcaaccaatg gtctactagc ttgaaggagg agctgtctta aggggttctt 300
 tcctttctgg tttcagctat tgcgtttatg tatcttatag ttgggatcgg caattatctg 360
 ccttgcatct ttt 373

<210> 18877
 <211> 399
 <212> DNA
 <213> Glycine max

 <400> 18877

 tctttgtttt tttactggat attttcttct tgtacagtca tgtaattcga gtatttatgt 60
 catgtaattt caggaatctt cctcacttgc atagttttgc aaaacaaaaa ccttattttt 120

aacaatgttt cttaatttta gagaatatgt ttagatacgt acgtagaaaa aggttttaaaa 180
 aaatatgaaa ttattttacat ataaaacact aaacagggag gagttattat aaattttaaaa 240
 tagatggaac aaagtatatatt atcatattat atatatattga aatgatgaga aaaaagatga 300
 aaggcagatg agtaagaaga agatagccag aagcataggc taagattgtc caacacatgt 360
 ggatagcagg aaaaacgagt gtattgatca acaacttcc 399

<210> 18878
 <211> 381
 <212> DNA
 <213> Glycine max
 <400> 18878

aactatataa gtatttaaaaa agcacttaca agtacaacac aatgggtttac ctgtgatcga 60
 agaacttcct tgtatgtacc aattttctcgt aaggctatgg tgaatttggt cataacagga 120
 cctgtaatag aaactcagtc ataaatcatt tcatcaccat tagactttta gagttaaagg 180
 taacatacag acttaaaaatc aaattatgaa gtcagtttag tcccaagcac agtcagtagt 240
 cactaaatta tagagaaaaa ctgcaagcaa attatctcag taagaattga aattaataga 300
 atgaaatgtt aactgagtca agtatttagag tcatcgtttt tatgattgac agctcatctg 360
 ggggtgctaaa aatggaaaca t 381

<210> 18879
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18879

taggcccattg gtcattttga tatgaccaac atgatgtagt atgccctaaa ctagtgcct 60
 atgcttggtta aagggcattcc aatgtcaatg acaggatagc caaacaacaaa tgtggaagct 120
 acttcagtgt cctttccatg tctttaaaat atcatgaatt cagtgcctaa caaagcaagc 180
 taaaaactca tttgtgacag cttgccacct tgtcatatgt gtttggttcc cattgttttt 240
 gttgctgctg catttttctaa ctgcatgtaa agttaattgg ttaccatttt tctgccataa 300
 atttatgtta ttacattttg gaatttcaat aatggcagga catttttttt tccattcctt 360

tattatccat acttcttgta ccatgttgct nttgctgg 398

<210> 18880
<211> 402
<212> DNA
<213> Glycine max

<400> 18880

agcttgaggg gctcttctct gagaagattc tgcagacaaa ggaaaacaga aaattttgaa 60
caaattttca aaactctggc taaaatcatc taaaaacttc aacatagcaa aagtaagtaa 120
ctgacattgc taaagcatgc aagaacccga ggaacaccct cacttggacc atcaatgcca 180
ggaatgaaat ccattcgagg tccaatccag ttaaaaggcc tcacaattgt gaactccaag 240
ccattttcag caccctcagc tgccaataat cacacatcag tgagaattaa caaaattgaa 300
aaagaaaaaa aaaaacaaca cctaaacaaa aacaaatcaa aactcaccat aaatcagcct 360
ctcaatcaac tgtttcgcac aggcataaga ccacctctgt tt 402

<210> 18881
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18881

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gtagacctct tcctctaaga tgccattaag gaaggcattg ttcacatcca actgctgtat 120
tggccagtta ttagtgacag caagagtaag aagaagtttc agtgataggc ttgataactg 180
gtgagaatgt ttctgtataa tcagtaccaa actgctgatg aaagcctttt gccactagtc 240
tagctttgta cttatttaca gtaccatcat aattttcttt gacccgaaac acccacttgc 300
aaccaatatg attactatca aggcctcatg tattgttttt aatcaaggca tcatactcag 360
tttgcatagc agccaacccat gtagtatcgc taaggcttgt ttagtagata tgggttccaa 420
atgagtcaaa a 431

<210> 18882
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18882

agcttgagat gatgttttgt tgaaggggtga aacttcctgc ttttattggt gaccacagag 60
tgggtacctgg agatatgtcg tgggggtcag gagaccttgg ggacgtcagg tgggggtgcta 120
ttgccccaaaa ccaagcttga ccaatcccgga cccaacccgg gcatagtcgg tcagtgagaa 180
cctgtgatgt acctaaacag gcgagctcct ggcagtcaac agataaaagg aacaaagacc 240
acaaagcaag gaggcttgtg gtggctggcc agctgtgaat tttgtgtaat atgtggatta 300
tggcctctgg taatcgatta ccaaggggtgg gtaatcgatt acaaggctta naattgaaga 360
caggaggcta agatggtctc tggtaatcga ttacc 395

<210> 18883
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18883

ntataagcgc gggctctggga gacaaaggtc aagtggctgc tatatgcgaa tatgatgttc 60
cgagttacatt ggatttggta cgacctgccc ctccctgattt ccagctggga aattggcgag 120
tggaggaacg ccccggcatt tacgcaatga gcataatgta aacctttacg gtttttaaaa 180
gctctatagt tgggcctagg ctttagagtt tttccttttg ttaaggctct gtgtcttttg 240
ttgttgaatt tctaatacga ggacctttct tcctctgttc ctgcgtctct acccattctc 300
attcatttgc atgttcactt ctttntttga aacggcagat ccgatgacga gtcccccgaa 360
ggtactaata cctgggaccc gcttatcgac ttcgagcaag aaatgaatca nacggaagat 420
g 421

<210> 18884
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18884

agctttatat gcatgttcaa aggaaaatta taatcgttta gaaacaacaa acacttgaaa 60

atgaaaacct ataaatacta gatgctttga agaaatgagt aacgaaccta cacgctatca 120
 ttcaaattct ttatgtagaa aactctttgt atattcttat aaagtttgaa aagctctcaa 180
 aacatcttga atactctaag acaaaaaact aaatgcttag atttcacatt tgtttgtaag 240
 atgattaaga tttaatcagt tagcaaatca aacaacatat cttttgattt gtatagaacc 300
 aacagtggct tggtaggaca aagaatattc ggttgtaaa gcttgatgat aaactntggt 360
 gtgagagcta aaagtaactt ttgtgaaatt agtgaaa 397

<210> 18885
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18885

gaggctcttn tatatgtttc ctcggaatgt ttttgcataa gattttatga ttatgcaaca 60
 aaatctgctt tttcaaattg aaagttttct tccggcatga aaatagattg tagatactac 120
 aaagtatttt aaaccttggt gtgagttaga ctaatataga tacactatag tatttgatga 180
 tacactgcaa gtgaaatggt catccattta ttgttctatt aatgcactca caatgtcttt 240
 acatgattag ctgaagatgt ttctatatga tttgttcttc tagactacgc cttgtcactg 300
 ttatatcttc aaagatatct ttgatactct ctcaatccac ttttaagact tgatgatcac 360
 ttctttctct tcagaaagta atgatganga cgatcaccat gagcactgga atg 413

<210> 18886
 <211> 402
 <212> DNA
 <213> Glycine max
 <400> 18886

agcttgatcg tcttaaactg agttataatt aaccttctct gaagcgatca atctagatag 60
 ggataaacac catatgatgc ccagatttta cttccataac aataaatttg ttgattacta 120
 actgaatcta tttcagttga ttaaaaaatg tatgttttgt tgtacatttt tagtattgaa 180
 gttcgatcat ccctttaaat aaaaaatagc ttatttattt ttataataat taacttaaaa 240
 atcactactaa taaacatcta gttaattgat aatataaata tatattaact gtgctcttat 300
 atcaatatta ttattatttt atcatgatta cataatattt ttggcaatta attccgtaga 360

tatatatata tatatatata tatatatata tatatatata ta 402

<210> 18887
<211> 417
<212> DNA
<213> Glycine max

<400> 18887

ttagttaggc atacacaata ttaacttttg taatattaga cacaagttat tattagcttt 60
aggtatatat acctaaaatt ttgacacacg taaattttga gctttgttaa tactagggta 120
aataattttt aggttttgta ataattattag gctaaacaat tttgagtttt aaataaatga 180
gttgattagt tatattatgt gatttagtta tttttagttt gaattttttt aatatatata 240
tatatatata tatatatata tatatatata tatatatata tatatatata tatatatata 300
tatatatata tatatatatg agagggtagt gtgcgtgagt acctgagggtg ttatatatgt 360
agtgtgtacg agaataact atgtgttagg agatatacgt tattaatat atgatac 417

<210> 18888
<211> 391
<212> DNA
<213> Glycine max

<400> 18888

agcttgtctg ttgttatgtt atccaaccac gtcagggcct tctttgtctg agaatttatc 60
aaggagtagt gctccttaag cagcctagtg aaaaaagaaa cattttgttt ctcacctcca 120
caagttcctt tcaaataaaa ccctggcaag tgtgttatct tacagatatt atgaaaatgt 180
tggttcaggga cactacaact ttgatacaga gggtcagtgt tcatactaca aaacctatgt 240
gcactagaat tagccatact attgtctaca agctttcgcc acttgtgaca agcatcacac 300
tgaatccatg tatcattgta ctcaaacag tcacctttag gcttcccaag cgacttggtt 360
tgagatacat gagatgtaac atctaatac t 391

<210> 18889
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18889

tactccagct tctgaacagg gttctcaacc aacttctgaa gcacaaccat ttagtatggc 60

tattttctcaa gcactaccaa cttctcaagc aacttctaaa atagtaagag ggttgtcttt 120

tgagagtgca aagtcaccca agttggtgag attaagtgat gttgaactta aatatgttgt 180

tggtcaccat agaggtctta aattaatata ttgtacatca tttttgcagg gaactagagc 240

acctacaaaa aaggtcaaga agtctaaaag atcaatagtt gttgcaaagc tattccctac 300

tataattgac agcttgaaaa agttgtcaga gctgacaaaa tgccaatcta taaatgatgt 360

gataaaaagg aaaatttgca atcaacaaga ttgactaaat tgtgtgacag gctgggttnt 420

cmetaaac caacat 436

<210> 18890

<211> 239

<212> DNA

<213> Glycine max

<400> 18890

agcttgtttg tgaagcttct aaggaggcta gatctttgag cttcaatgaa gtcctttaat 60

ggtgattttc caccatggag atgcagtgga agataacgga gaagaggtga gaggaggcac 120

catccactag ggaataagcc atggaagaaa gagcttcacc atcaagagag tgccttgat 180

aagaagctta gaaaggaagc ttcaatggag gaaaagaaag agagagaggg ggggggggg 239

<210> 18891

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18891

ctttaggata tacaacagaa gaaccatgac aattgaggaa tcaatacatg tttcttttga 60

tgaaactaat attacctctc cgagaaagga gtttcttgat gatattgtag attcttttga 120

agatatgcac aatcaagaaa ggaatctaaa aaggaagaga aatgaagaga acaaggatgt 180

tcaagctgac aatgactcat ccgatggttc ggagaaggag atcaaccttc tatccaagga 240

ctatgaaagc aatgagaaca tctctcaaga agtttaagca aaaagcaaaa gtctgacttc 300

catcttttaa gatctaggca cttaaactcat gaaagaggta acatcaaac cattctcttt 360

taaattaagt tggttgaaac tntcctttca attaacttgt gtatatgatg actaacaaaa 420
 tttta 425

<210> 18892
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 18892

ttgtgcttgc tatgagaaat gttagccagt ctatggatcg atcgatacag ataagcttga 60
 accatatccc ggggagagag tgatcttaga ttgcgagtaa atgactaaca tcgagcagta 120
 tcctttgtat cagactctga atgaaatgca taagttgaca tgtgatgaag gccattgtcc 180
 tactttcaaa ctactttagt agaaagctta ccttgaatta taattgtact cctttgcacc 240
 ctttgtgagc tgaattaaat tttcaaattg aaccctgtgc tagactgact atctccatct 300
 accttgctta agtgctacga gagcatatgg ttcaaggcga ttttaaccta ctatggggga 360
 gttagttggg atgtg 375

<210> 18893
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 18893

tgtaatcgat tacacacata ctataatcga ttaccagatt atattttcat aaaatattct 60
 caattgtcac atcttttcat ttggttcttg aatggctatc aaaggcctat atatatgtga 120
 cttgagacac gaatatgcta agagttttta agaacaaaaa ggtcttatcc tcttaaaaag 180
 caaaatcgta ttatcctctt acaaattcct tggcgcaaaa cacttgatgat tcaataagga 240
 attatttgag tgctcaaatt gttcaatcta tctctttcaa gagagatttc ttcttctttt 300
 cttctttatt ctgaaaaggg attaagagac cgagggtctc ttgttgatga agaattctaa 360
 acacaaagga aggattgtcc ttgtgtgtat aaaacttgta aaaggaatat ac 412

<210> 18894
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 18894

agcttgaaat gtaaaaatagt aattaggaga tcgaaaaaag tgggagttat tgtttggaca 60
agtggaagag gcgtattcca aatggcaaag ccaccattat ttacttttaa ttaattgggtt 120
gagtttagca tcttggtttt ggtgctacct attgcttgcc gtgtttgcag caatctcgcg 180
ttgccagta gaggacacgc ttgtcacagt ctctccatgc atcttgatg aaaatttgga 240
cttcctcgat caaacttatg taagtttcaa acaagaggat tcattgaaaa aattatgtca 300
aacaatttcg taatagggaa actaaccgat taaacaagtt tccccttcac 350

<210> 18895

<211> 403

<212> DNA

<213> Glycine max

<400> 18895

tgaagctggg gtaatcgacg gtttgctgat tgggcaaagc tctgcgacgc aaaacaaagg 60
aaccaaatga gagaatggaa tgaatgtgga gagaaaatgg aagagcagag agagagagag 120
agatcaatag cataccatgt tttgtgtagg ggagaaagaa agagcgaacg gtgaagaaag 180
tgatatgtat taagagagat tggaaagaaa tgaagccaag ggtttataaa agatcgtggtt 240
tgtttctaga gagagccact cttagcggtta acctcacgca cctcttccac ctggactttg 300
ctttatcact tttaaattggg cctgcaaaca taattacacg gacagcccaa actagcaatt 360
accacatata aatatctttt tgataaaatc attctgtttt gtt 403

<210> 18896

<211> 393

<212> DNA

<213> Glycine max

<400> 18896

agcttatgac gaggaagtaa tttttctagt gtacaataca atacaaaaac attgactttt 60
agattaatat aatttcatag tatttatatgc atccttcata tcttatctcc atttcttttt 120
cagttgcatt gtaatacccg tcatcctcgg tcatgagcac cacctacctc ctccgagtgc 180
cgccacctcc accacgtcat agatctgagt gagtgcatta acatctaccc caccatatct 240
gcgcttgcgg catcaccacc gacctcatca atgccgcgct acccaaccag gtccttgcgc 300

gtgggacccat ctccgacccat gtaccccccacat ctgtttgtgca cgcgctccag ctccacagca 360
tgctacaccg tcacacgcga ctgcaccagc aac 393

<210> 18897
<211> 418
<212> DNA
<213> Glycine max

<400> 18897

gtttacatag atacatagat acaactatca tattaatgta tcggaaatga tgaataaaaa 60
tcagaagaat tggaatgaaa tgactaagac aatgatgaag attaacagag caccagagga 120
aatgttcaac atagttcata ttaaggatca tgttatgaat ttcaagacta ttcttaaata 180
aacatggcat aatatgacac atcagtatcg cttatattag tatactttaa atgtaacctc 240
atggtgaagt gagtacgtcc tttgatgcat gatggaagga tcaactagag catatttagc 300
atctgctcga cagtaatgac aatatgcact ttgttaaata caacctagat ttggtgaacc 360
caactacatt ggctggatgg atagaactca tatatttgta tggactcata ggaaaaca 418

<210> 18898
<211> 356
<212> DNA
<213> Glycine max

<400> 18898

tcttgcttct attagttatg aagaacattt ttagtactta tcttgattga gtcttctctt 60
gattcttgaa tctggatctc gattattctt gaatcttgat gcttgaaact acattgtatc 120
ttgtaacctg attattcttg aatatgattc ttgaaactt gattcttgaa gctttttgac 180
tcctgattct gtgggacttg cttagctcta gattctctgg catcatcaaa atgatcttgg 240
aaagcattgc ttccacatta atcaatccaa cgatccatgt taagcaataa ggaattcgag 300
ttttgggttaa gtgtttcgaa atctgtagcg aatggatcatc ctgttctcgg attcta 356

<210> 18899
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18899

tcatacaattc ctcatgaaaa catagagcag cttanaagac attgacgata atgttttttt 60
tttttttttg tctttcctac atttaattta tagctttgtg gatctgatat tttttttttt 120
tgtttgtctg acatgccaat tgctcgattt tacaagaatt gtgcattatt tatcgagggg 180
tctagctcac ttggttgagc tggaggtgta agtgctataa acttttctaatt attgtgttta 240
atgcttacga ataaaaataa tattagcaaa gaaataaagg tgaagtgaat atgaacaacg 300
tcattgttctc taagcataat aatacgatgg agtaaaacac gtgtgatttc cattgggctt 360
tgaaacctga tcttgcttgt gtgcatatga ctttgtgtta tacaatatct tct 413

<210> 18900

<211> 295

<212> DNA

<213> Glycine max

<400> 18900

agcttcctag gggccattgc tgcaaattgc aacgtttgta acgcttgctc taccataggg 60
acgatactct tattgtctgac atggcatttg acctactccc atagacacag acttcattgt 120
atatctagag caagcttatg cgcagatttc cttacatacg ttctcttgca catgactttt 180
tattatccga ataaaaactat gcacctatat acaatctagg caactacgct gcctagatta 240
tttacgcgta cttccactgt gtattagtta cttacatcac acacaatctc ttggc 295

<210> 18901

<211> 322

<212> DNA

<213> Glycine max

<400> 18901

tgccgtgtgc gcacttgtaa gggctctgatc actgcccttc tatggcagtc tcaaactcgtg 60
actgatatgg ctgccgaccg cactcaacta gcaaaaatgg tcgagaaaga gggcgccacc 120
cataaggaat atgcgcatcg gaggaagaac ttggccgccc agatgactcc tgccatggta 180
tgcgagagag atgaccacca tgatggaaga cactctggca gagttctact atgagaagct 240
cgcgagttac atgcgcgaca gctgtgcaga tctagtactt ggcgggggaac gaaccagagt 300
ctgattgatc agaggaacgt ca 322

<210> 18902
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 18902

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agcttttgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
ttaccctcgg aagcaaaaaa gaaaagaagg aaaatttcca atcaaagaga aagcaaaaag 120
aaaagaagga aaattttcaa tcaaagagaa agcaaaaaga aaagaaagaa aattcccaat 180
caaagaatgg gagaaagtaa aaaaggaaga agaagaagga aagaaagctc ctgatcaagg 240
atcgaaagaa atcagaagaa atgtgcagaa aagtctttgg accagacaat atctgaacag 300
tacaaaattg tcaccaata aacaaaaaag gaaaggaaac cacgacctga aagtggctctt 360
ctccctttga ttaccaacca aaatcctgtg cgtcggtgac 400
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<210> 18903
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18903

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tacatcacag gttctcattg actgactacg cccgggttgg gtcgggatta gtcaagcttg 120
gttttgggca atagcacccc acctgacgtc cccaaggtct cttgaccccc gcggcatatc 180
tccaagtacc actctgtggt caacaaacaa aagtaggaag actgactctt ccacgctttc 240
tcacatcaag cttagtggat tatggggcac ccatcatatg tgggtactagg tggcgattgg 300
gcgatggcac aaatcaactc tcccatttcc acaaatcata cataaacata ccatccccag 360
ttgccacact tcatattgag ctacgcact cccacctagc ccttatactc gttcctctca 420
gcaccgggtc ccca 434
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<210> 18904
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 18904

agcttttcga ttcattctat gtacccgtag tggccacat tgtgtttcgt gcatttttat 60
tctcgttttg tttacttttt atacccctg ttgacgtgct taagccattt tacttaagtc 120
atttctcgct taacttaaaa ataaaataaa tttccaccga acgtttgaat tgtattatcc 180
attaacttcg gttaaaataa attccgaccg ttcggtcgtg ccgtaaccac gttggaaatc 240
aaaaagaggt aagaaataat ataataatca aaaagacatc ttttagtaaa ataaagcgga 300
aatcaatcg gacgttttct ctttgggatt tctcattctt aatcgaattg attaataact 360
aaagtgagac taaaggctaa aatcaattcg cct 393

<210> 18905
<211> 431
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18905

tgaagccctt agttntgctt tgataattat gcaatgccaa acatgtttta tggatgtggc 60
atltgtattg aatgttttag actaggcatg tgtgtgatat aagttttttt catgcttagt 120
agtgatcaaa tgtgaagtga atgaagtatc ctttgtctct aagtttccta agtaaaagca 180
ataggactta cctctacttg aaatttggtt gcaaccatcg aattaatcga tttcctagct 240
tggtaatcga gtaccaaagt cagtttcaga agaagaaagg atctaccgct taggataatc 300
aattgccttc ctagataatc aattaccctg cttctaaaaa caatgggaag ctctttgtgt 360
gattcatcga ttactacaag tgataattga ttatcccaga aagcacagaa acattagaag 420
tattcagact g 431

<210> 18906
<211> 319
<212> DNA
<213> Glycine max
<400> 18906

agccttgccc gcatgcctgt ccaacatctg gtccatgaac ggcaaaggag aatgatcttt 60
ccttgaggct tcattgagct tgcggttaatt gacgcatatt ctcaacaacca acgataaact 120
tcgttgggat taggacattc ttgtcattgc aaatgactac cgtacccctt gtattcggca 180

ccacctggac tacgattaca taaccactgt gggaaatggg gtacatacgc ccaacactaa 240
aaagctgaag cacctgtttc ctcacctctt acttcattga tggaggaagc acttgatatga 300
ggctggctga ctggtctat 319

<210> 18907
<211> 417
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18907

gtacacagat tttagtaatg acccactaac ctagaattat tataacttat ggccattaac 60
ctaggaatt aaaataactt aatgggtgag tgtaactgaa attgtggcaa ccaaaagtca 120
cccccaacag ccatcaatca gccaccatat ggtctcccaa aagggtgatg cctaggttgc 180
caattgggcc cttattacaa cttgaactaa acctaactaa agccttttta gttgattaac 240
ccaaaacata tttttggtca gccaaactta caaggattgg gccattattt agacaaacta 300
aacactctaa aattgagaca aagtgggtgcc atttagtcct cctccatttg ggccatgata 360
caactcacia ccttggaactn ttctccttga aacttgnngt tgtattcaaa tagtatg 417

<210> 18908
<211> 387
<212> DNA
<213> Glycine max
<400> 18908

agctttgcga aaagcttgcc gctggagctg acccattaac cgccctaggc tcttgacctt 60
gaccttgact tgatagaact tatttttaag tgaaggcatt tgaattgatc ccatgtttta 120
ctaaagtga caaaaatcgg tgcgaatcaa aactccgaca tcaatcatga gtggaatgga 180
tgaatgcatg aagaaatgca tatgacacia atgcaattta tgaatgcggg agcctgggaa 240
attatctctt tcttagatac aacgtcttgg ggtagcacag tgcccgcgct atgtatttaa 300
gaaggtgaca cagaccctcc attgggttgc caaagagagg ggatcaagac aaaaccctg 360
catgatgcat atgcgaaagg cgcaaca 387

<210> 18909
<211> 422

<212> DNA
 <213> Glycine max
 <400> 18909
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 cacttagcaa tttgttgaat aaagatgttg ctattttgtt taatgaagag tgtatggatg 120
 catttaatga tttgaaaacc agattagtgt ctgctccagt aattatagca ccaaattggg 180
 ggcaagaatt tgagctgatg tgtgatgcaa gtgattatgc cataggtgca gtgcttggac 240
 aaaggaaggg aaaaaathtt aatgctatat actacgcaa caaggttcta aatgatgcac 300
 aagtgaacta ttctaccaca gaaaaagaaa tgctggtaat tgtttatgca cttgaaaagt 360
 tcagatctta tctggtaggc tcaagagtta tcatctacac tgatcacgca gctattaaat 420
 at 422

<210> 18910
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 18910
 agcttgctga ggtcgggtggc agactcaaga ataatggaat gtgtagtggc tttgtctcat 60
 acctccatta cacttcattt gtacctgagc ttgcttcctt atttttatta attttgttca 120
 tgtttatgtg tgagttgaat cttccccgcg aggatcaaaa gatataaaaa attgtaaata 180
 taagaatcaa aatgaatgtc ttaaaactata gggactaaaa aaaattatca caactataag 240
 gactaaaagg gtaattaaat caaaattaaa taaactagag caaaataatg gtgggtgtgg 300
 tagacacttt taatcctaat tgtctccttg tagacatata tacctctaca tatgtgtgca 360
 ttttgcaacc accaccatta gtggaaaaaa at 392

<210> 18911
 <211> 441
 <212> DNA
 <213> Glycine max
 <400> 18911
 aatactcaag cttgttagat atgcacgatc atcttccttg acaactccgt gattaagatt 60
 gccgtcaata tgaagagaga acaatttaga gagtgatcga agactttcaa atggatttcc 120

actgaattta ttcatagaga gatcgagata tcttaatgat gaaagttttc caaatgatct 180
 aggaagagca ccaccaattg agttggttga aaaaagtaac gtgtcaatat ttttaaagtc 240
 cccaatatga tctgtcagat tgcttgaag tctgtgaactc tgaactgcaa gtcttgtgag 300
 tccatgggaa atacaaggag cacgaatctc taaaagttca ttaacctgtt gggtgagttt 360
 gagatatgat aaatctatca cccttaagtt gcagagatta cccaaagaag ttggaatgtt 420
 tccttcaagt tgattatgtg a 441

<210> 18912
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 18912

agcttcttgc agttggacaa cagtgggttag cctctcgaaa tctccaccta agtagtgttt 60
 gattctaattg ccattcacag tccatgtcct tttggtggtt gggctcctca atatcattgc 120
 tccatgtggc ataacttttt tgatgaagaa tgggtcaaacc acttgcaactt cagcttactt 180
 ggaaacaatg ttaatctaga attaaataac aatacttggtt ggccaagctg aaaattcctt 240
 tttgacaact ttttgtcatg atagattggtt actctttgct tataaagatt ggaattctca 300
 taagcttgaa ccctcagttc ctccaattca tggagttgaa gctctctgtg ttcaccattt 360
 gcattcgagt cgaagttcac aaattataat gcc 393

<210> 18913
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 18913

tcatctgatg tattagtaga taatttttaa tttgcttatt tatcattata gaataaaata 60
 tggatatatg ttttgcggga caattttaga tttattatct tttttttcta agcagatgtg 120
 atcgactaca ctagacatta gcattggtga caaatatatt gttcaacctt tgtaccatat 180
 tattattatt attattatta ctattattat tattattatt attattatta ttattattat 240
 tactctctct tttcgtaaat cttttctttc tccaactttc atgcatcttt tgttttagtt 300
 attatgaaat ttaatttttg tttttgaaat aaataatcac ggctattgtt cccaacaagt 360

gtgttgcatc tttggcgggc acaatcaaac aagagaatca caatatcaaa tgagtgagt 419

<210> 18914
<211> 379
<212> DNA
<213> Glycine max

<400> 18914

agcttttggc aaatgaagaa gaagaagaaa ttcaagagga tgttcaaaga gattcaaagg 60
atgtaacaga ttgtaatcaa tgtattttaa atgcaagtta agttcttgcc tttatagact 120
cttcaagtct ggtcaagaaa accattacaa gagttataac ctttagaaaa cctttggaag 180
agttacatct tttgattttt attcaaaact tatcattggt aatcgattac caaatcattg 240
taatcgatta tacaaagcat ttttgtaaaa cgatgtgact cttcacattt gaatttgaat 300
ttcaacgttc aaacacactg gtaatcgatt accaatatat tgcaatcgat tacaccatta 360
tgaaattgaa tggaacatt 379

<210> 18915
<211> 417
<212> DNA
<213> Glycine max

<400> 18915

tgcaccactc gagatcttga gcagattcat tctgggcaat gtatagttag ttgctagaga 60
actctatctc tcaactttggt ctttcaaaca gaaagtgaat cgcattgtgat aatgatattt 120
gaggtggagt atttatatttt gtggttgagg catctccaaa tgcaccaaag tgtgatgctt 180
aatctacact taagctccat ggggagggtt tcaagaagggt gaatagttaa gtccatagct 240
ggttctgcat ggttcatata taaactaacc tggttctaga ttcttgcttc ttcccacacg 300
tttctaactt gttggcagcc aaagaagact cgtgcaatgg actcctttcc tttagattgc 360
agcctggtag ttgtagggag acagcatttt aatgtacgcc atagaaagtg cttgact 417

<210> 18916
<211> 308
<212> DNA
<213> Glycine max

<400> 18916

agcttgatgg aaaactagac gccttggtgc aaccgagtaa ctcatcgagc cttgaatcag 60
 acatctgcgc ccgtggcaag agtctgaggt ctatgtactt ctacagatca ccatacagat 120
 cttaggcctt ctttggcgca tttagaagtc gacgagcaac ctaaagctga tgctgcaaac 180
 atttataata gacccacctc gcagctaaat ggactacagc agaataattg tgatctttta 240
 ggccacatat aactccacg ttggagaaat agatcgaatt agacatgggc gagtctcca 300
 gaacgaca 308

<210> 18917
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18917

tggttagcg cgaggataag accacttagc gtggtttgct tatcagaaaa gctacaactc 60
 tcgctaagcc aggctctggc cggttagct aaaatgatgc atcttaagta caaaggagca 120
 tgcgcttagc tgataaggac tcgcttagtg cttacattgc cacatggaat ttagcttaac 180
 tgccatgagt ggcgcttagc ttcatgaacc tctgttctga ccgtaaggaa tttagcttgg 240
 cgacaatagg tcgcgcttag ccaaggataa gttgttgctt agcattttag ctgtcgctta 300
 gccaaattgg attaggctca gcttcgcctt ggctagctta gcggaatgaa tcagcctaag 360
 atgaaggggt tagacgctaa gtgcttgaga ctcatggctt agcgcatgaa taa 413

<210> 18918
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 18918

tcaagcttat gcaatttaca attgtaggca ttggtgcaat tttcagatgc ataaactgct 60
 acctccgcaa aggatgcttt ggatggaaga agcatacctt ggtgacagtt gtattatttg 120
 tctgacatgg tatttagttc aactgtgatg gacatattgg ctgtggatgt ggtgcatatc 180
 ctcagattgg tcaactatag actgttgtaa cttggatatt cacactctca ctttgggata 240
 tttattatgt agtgtatatg ctgtttttga aattgtaatt atgaatcatt gaatgtgtaa 300
 catacggtta gctatatcat tgcaactgga ccaatcataa gaataaatgt gctgagttca 360

aagtttttct act

373

<210> 18919
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18919

ntaggtgct caattgatcc aggttgctgc ataaaaggga taaagggtta tatgggtggc 60
agcagaggag cataaaccac agactcttgt aacagggtaca aattttttat tcaaggctag 120
ctgggttacc aggttaacca aggcattctag ttacattca agcttcttat ttttagctga 180
tgcagatgag tttgtggcta cctcatgcac tcctataatg actatagcat catttctggc 240
actaaactgt tgggagttgc aagccattct cttaattaaa ttcttggtct cagcaggggt 300
catgtctcct agggctccac cactggcagc atctatcatg cttctctcca tgttactgag 360
tccttcataa aaatattgga gaagaagctg ctccgaaatc t 401

<210> 18920
<211> 386
<212> DNA
<213> Glycine max

<400> 18920

tctgcatgct agcttctccc ctattttgct ataaataggg ggagaagtga agaagaaaag 60
ggttcagccc cctaggcact tctctctctc tcgaaatagc tgaggaaaat tagttccgtg 120
aagaaaatcc aagctgaggg gcttccgtaa cgtttccgta acgttttctg gagtaattac 180
gcgaagattc tcgaccgttc ttcaagattc atcgatcgtt ctctggtttc ttcagtcttc 240
aacgggtaag tacatcaaac caagcttttc aattcattct atgtactcgc ggtgggtcccc 300
atttgttttg cgtattctta ttctcgtttt cattcgctgt ctataccccc ttttgacgtg 360
cttaagcatt tatttaagtc ttttct 386

<210> 18921
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18921

tcttcatagc cattgcctac aaatacacat ccataaaaag ttattttgca tgaaatacgt 60
aaccattact ttagctatcc taagtatagc aaccaagaag tcaatcaatt ttgtgtggtt 120
tttgctaatt gcatgtgtta ccgtacaact aataaaacaa atcaaaactc agtgcgcat 180
attttgaaag aaagaattcg acattctaca gcaatttaag agcaatatac ccaccatagt 240
gcaacaattt taaccaacaa ttagaccaat tcaaaccaaa caattttaag cattcatgta 300
acccatgtat tttcatctaa agcaaatgtc taaaattcca agcttactcc atgctcttga 360
catttaatct atcaacctaa gtttatcata catctaanat gatggctaga catgcgtaa 419

<210> 18922
<211> 251
<212> DNA
<213> Glycine max

<400> 18922
tagcttcata gaagtgtatg tggctcgaaa catagcatcg atgcactggt acttgacggt 60
atatgactta atgatcaact caggattcaa cagatgtgac atggaccatc tctgccgcgc 120
taagatatat actaatagct atgccatcct tgtcgagtat gtggatgaca tgaatattac 180
aggatctcgt atggcacaaa tgcacagggt gaagcaccaa ttggcagaaa actttgatat 240
gatagatctt g 251

<210> 18923
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18923

tgtgaaagtc cttctgattc tatttatgca tttctgactt gatgacatga gatgaagtgc 60
aaagattgga cctcttgcta gttgttatta atgaatagct taaacactta tgcttgagt 120
aaacaatagc tgtgagactg tggtttaagc tactttcctt gatatttgtc ttatgcctaa 180
cttcatctaa ttgtacaagt tacattctac tcttctcttt gaataactgc gtgctttgtg 240
aaagacaagt gatgagggca ttttgcttca ttcttttatc atgcaatcaa taaatnctgt 300

gcatacacct tcatacatag tcattgcatg tttttgtcac ttgtgggacc agtgagatgt 360
tccttatttg cttgaggaca agcaaaacta taaatttgag gg 402

<210> 18924
<211> 401
<212> DNA
<213> Glycine max

<400> 18924
agcttgtagc catcgtctcc acaccccatc ttaagatgaa attccccacc ttaatgggag 60
agatcgtcac tgtcaaggca aatcaaaaagc aggacgatg ctatgccgaa agtttgaagg 120
tgacacctta tctcctact agggagttag ccaggcctca ccccgtagcg aatgggtgaca 180
ctcaagtcac aagcatggat gaaaggtctt cattctgagc cctgactggt taccaagcaa 240
gcctggacga tgtatttgat gtaaactctgc gtaacgagac tgttgacaaa ggcccaaagc 300
ctagtgaat ttagctgaag tcacattata ttttttttta tcgaagtcac cttactaaat 360
tttgattgtg aaattatatt tttattatta taatagaaat c 401

<210> 18925
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18925
tcacacgctt ctgctcttc aaaggtgcct tctcgcgac acgaagctct tcaacggtgg 60
caaatacagc tggatgatgac cattaagaga acaatatgtg taagggcaaa cttcatggc 120
tgaagttccc tctgactgag ttccccaga gctaagcatg aggtatgcag ggaactttga 180
gtccttcaaa gttgaagaac atgtagctct ctgtggtgca gcacacataa cagccctggt 240
ggattttcta gaacaagctc tagaagcctt gaaactagt gttttggtca atgttctcac 300
caaactcaaa ctattagatg ttcttgtcaa ggcttttgca ggtttcttaa cacatgcagc 360
tntggaatca ctggaaattt ttctaggaag attcttaaaa tcagaaccag gttgagtgtt 420
cctttggc 428

<210> 18926
<211> 405

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18926

agcttgtgac tcttgtcaat ttctttaaaa ctagtcactt aaaaagttgt gatttttgaa 60
aaaatcttca aaaacaagtc acttgaagaa ttgtgacttt tggaaatgta tttttcgaaa 120
tcagtcactg gtaatcgatt accattaagg tgtaatcgat tacacatcaa caaatgtaac 180
ttttcatttt gaattttgaa aattaaaacg tttagaagct ttggtaatcg attacaagta 240
ttgtgtaatc gattacacaa gtttaaaaata ctttaaaact gtttaaacat aagttataac 300
tcttgaaatt tgaaatctta acgttttaaa acactggtaa tcgattacca gagagtaaaa 360
ctctntggta atgattttgt gaaaacttgt gctactcaat atttt 405

<210> 18927
<211> 410
<212> DNA
<213> Glycine max

<400> 18927

tgcccatatt cttactctct atactattga tacttcttac cctcgatgat gaaccaagca 60
aagtgttaca tgtatagtga taaatattga aggaaataca ttataactcg tatagagata 120
catacttacg aaagtgtaca ttacaagtca tgccatttta tgggatttta ttttctctcc 180
atgctaatta tgtagctgg tccacacgaa tgtatttttt gcgtaataaa tttatctatc 240
acctctcaag attttgtgta gcccttacia caaattttgt ggttaatgaa aatgaatatt 300
tggtctcttc cccaaaattt ttgtttccag catgattgtg acacatttct agtaatacat 360
aagaatgctg gtatcaagat tccagatcat tgtgacattg gtccagcatc 410

<210> 18928
<211> 404
<212> DNA
<213> Glycine max

<400> 18928

agctttatac aaatttgggt cactctcaat agagagggtt gaagaaaaaa ttacaaattt 60
ctcacacaga gattaggctt tagtttctct cactagaatc cttcaacttg tattcaagat 120

gctcttcaaa catgtcttaa agctctatgg aagaccattg aaatgggctc tacccaactg 180
 aaaaactcct ggaacaagtg gacaaacatg acaactatca tgaaatgaca gctcgcacat 240
 cattctaaga aagacattct gaggaacatt ctttataata tttttgaagc atcttttagaa 300
 tagtcattct gatgtttgct gagaaagaat ttatacttgc agtagattct tttgatgaat 360
 tttcactaat atgcctttct aaagtaatgc agcttcatca atca 404

<210> 18929
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 18929

ctcaagctta gtgcgcttaa tcttcacatg gataatttct tcgactactc tggttctata 60
 gtggaatacc ctaaatgcct tagatgtctc aaaataccca agccatattc catcgtcact 120
 tctagaatca aacttttagca agccatcctt agtgtctaga atgaaacatc gacatccaaa 180
 atgatggaag tataagatgt gggatttttt ttccataccca agccatgaat tacccaaagt 240
 cgcgaaagtca attcgaggcc aaaaattgag tccacaactt gccatgactt atccacaaac 300
 ggatgatgga gcctatactg agcatgag 328

<210> 18930
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 18930

agcttatgaa cccttacttg tagcttcaat gcaaggaaac atgcttaaata ttgggttttag 60
 agttagaaaa acatgaaaat taggattttc ttgtgagagt ttttgctcga atttgggttg 120
 ccccatgttt gatactttac atagaggtag catggaaaac accttgcaat agtgtgtata 180
 cataggtaaa tataagaagt atgaaatccc tagcaaagtg tgaatgattg tcttcctaga 240
 tgaatgtatg atagtgtgga atgccttttt tgaatgcaaa tatgtgcagg atgtaattag 300
 ttttccaata tgcatataaa taaataggag tgaacagta aaaatttgta tgggtgtactt 360
 caaatgtatg taagtagttt gtgataacag atgttttagga t 401

<210> 18931

<211> 429
 <212> DNA
 <213> Glycine max

<400> 18931

gacacttaga ctctcagcct attgattatt gaccactcac cagaatttat aagctattgc 60
 cattaaccta gggaataaaa gaaaacttaa tggctgatct gtaactgaaa tcgtggcaac 120
 caaaagtcac cccaacatc caacatgtca gccaccattt ggtctcccaa aaggctgatg 180
 cataggttgc caattgagac cttattacaa cttgaactag acctaactaa agccctttaa 240
 gttgattaac ccaaaacata tttttggaca gccaaactata caaggattgt gccattatgg 300
 atacagacta aacactgtac aattgggact aagtgggtgc atttaatcct actccatttg 360
 ggccatgata caactcacia ccttgggactt ttatccttga aacttgggct tgtattcaaa 420
 tagtatgga 429

<210> 18932
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 18932

tcaagctttt agccaactca aacgataata actttttact cggatgtctg attgagtcct 60
 gtaacatatc gagacgctcg aaattgaatg ttgaacctct gagccaattc aaacgacaat 120
 aacttttttc acggatgtct gattgagtcc cgtaacatat tgagacgctc gaaattgaat 180
 gttgaacctc tgagcaaatt caaacgacaa taacttttta ctcgatgtgc tgattgagtc 240
 ccgtaacata tcgagacgct cgaaattgaa tgttgaagct ctgagccaat acaaacgacc 300
 ataacttttt actcgatgt ctgattgagt cccgtaacat atcgagacgc tcgaaattga 360
 atgttgaagc tctgagccaa taaaacgac cata 394

<210> 18933
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18933

tcaacattca atttcgaccg tcttgatatg tctatggact ttatcaaaca tcccgaaaaa 60

angttattgt cacctgaatt ggctcaaattc ttcaacattc aatttcgaca cggctcgata 120
 tgttaacgga ctcaatcaca catacgagta aaaagttgtg gtcctttgaa ttggctcaca 180
 gcttcaacat ataatatcga gcgtttctgat atgctacggg actcaatcca tgtccgataa 240
 aatagttctc gccctttgag ctgggtcaca ggttcaacat gtcaatgtga gcgcctcgat 300
 atgttacctg gactcaatca gacatgcgag ataaaggtat tgtcccttgc a 351

<210> 18934
 <211> 395
 <212> DNA
 <213> Glycine max
 <400> 18934

agcttgaagg tatactagat gccttggtta acttggtaac ccagctggcc ttgaataaaa 60
 aatttgtacc tgtcgcaaga gtctgtggtt tatgctctc tgctgaccac catacagacc 120
 tttgcccttc tatgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaaca 180
 tttaacaatag accttctcat cctcaatagc aaaatcaacc acaacaaaac aattatggcc 240
 tctccagcaa cagatacaat cccggatgga ggaatcacc taatctcata tgggtctagcc 300
 ctcaacaaca acaacaaca cctgctcctt ccttccaaaa tgttggttagc ccaagcagac 360
 catacattcc tccaccaatc caacaacagc aacat 395

<210> 18935
 <211> 399
 <212> DNA
 <213> Glycine max
 <400> 18935

tcagctttaa agttcatgca gtacagtttt taccattcgt aaaggtttgt catcagcacc 60
 agccctatac aaataaaaca atagaaaata agtgattcga gttttttttt ttttttaaaa 120
 aggagagtag taactctatc caacaaagtt atatatacct tctcctaatt tcttccattc 180
 ccaagtcttg cagggtacaaa tggatgcttt gaagtatgcg atcaagggtca acatcataga 240
 tagtgctctg aagaacctgc aagcacaaaa aaataaatgt taatactgaa caaaatttta 300
 atgaacaaaa catatcaaga tagaatttgg caatttcaac tctgcttctt gacaatgaat 360
 aataaagcta acaatggatt aattaattga atatctaatt 399

<210> 18936
 <211> 382
 <212> DNA
 <213> Glycine max
 <400> 18936
 tcgatcattt agatgactat aagattaatt ttttattcat atcttaatta cacttaaattc 60
 acttatttttc aagaatgtat tttaggatat tgaatcaggt tctttcttat aaacttagtg 120
 tatatgatta attgagatac accaggtttt gtaaaaacta gtatttataaa agccacataa 180
 atttgttttc atacttaaaa gttaaaaatg atatatagat tatttttttt tttttatcat 240
 tgtaggcttt aatcttacga agtggaaatc ctggttctca cggaaagcat gatataggag 300
 caacatttgt gctaagtgc aaccacgcc gaatttcatt atttccatta acacccgatt 360
 ctgcttaaat tggcacacca cc 382

<210> 18937
 <211> 146
 <212> DNA
 <213> Glycine max
 <400> 18937
 cggatatttca caccgcatat ggtgcactct cagtacaatc tgctctgatg ccgcatagtt 60
 aagccagccc cgacacccgc caacacccgc tgacgcgaac cccttgccgt cgcacgaat 120
 ataacttata ttaatgcatg acttcc 146

<210> 18938
 <211> 249
 <212> DNA
 <213> Glycine max
 <400> 18938
 tctagctttt tgactttcgg cgaattacgt catctgccgc gctcacatga acaagcatc 60
 tgacaatcga gccacgcaga ccggcggaac caccgactg gttatcccca taaaattttt 120
 gctgactgta agacgaaaag cctgattaca cgcagagact aaccgacgtt tgtgcgccct 180
 tcgtcaatcg gggccgacaa cctcgttgac atgcggagat ttacgtcatc tttcgtgctc 240
 acaagatct 249

<210> 18939
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 18939

agcttttcag atttgggtctt cgccagtgaa aggatcaatg tgggtccgaa aagaggcaaa 60
 tttgatcatc ctactaggac gactgagaaa actggggcaa ataaagaggg tgaggatgag 120
 ggagaaaccc atgctgtgac tgccattcct gtacggccaa atttcccacc aacccaacaa 180
 tatctttact cagccaataa caaactttct ccttaccac caccagtta tccacaaagg 240
 ccateccctaa atctaccaca aagtctgtct accgcacttc caatgacgaa caccaccttt 300
 agcaciaaac aaaaacacca accaagaagt gaattttgca gcgagaaagc ctgtagaatt 360
 caccccaatt ccagtgtcct atgctgac 388

<210> 18940
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18940

tccatcaagt ggtaatcaga gcacaagagc ttcaagtatg tgctccttaa acctccatta 60
 attatttttc tttaccttct cttccattgt tgtttcttca tttttctcca tgtatctcct 120
 cacatgtctt ggtctaaatg ttgttaacat gattctttag agtttccacc gattaaactt 180
 gctatagaaa ctagatttga ttttctatgg ttcaaatttc ttgttcttgt tcttgaacca 240
 tgaattgtgt tgagttaaag tccctttgag ttttgtcttg ttattatttg tggctgaaac 300
 ctaaaccata aaattcttac aaaaatatta tagtagaaca gaacctcaa aatatatagt 360
 gacttggtca cctattgtag tttcttcata gaagtcatgt ctagtcatga 410

<210> 18941
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 18941

tttgcttctt ttggaccttg aacaggcaac taactcctct ttcaaaacca tgctatgtgc 60

tcgcgactgg tccctttctt cccttcgcaa cttgagttca ttattgctac cccatagagc 120
 tccgcgaaat ttgttccggc catactcttc cttgcgagcc ctcttgggtct cttgttcaag 180
 ggctcttgca gtaattgcat tctcttcccg taaccgggca cactccttcc gaacgtgtgt 240
 agcagccaac ttgaacttct ccttggcgag ttttgccctt cctaactcgc tcttgagagc 300
 ttggacttct tcgtcctctt ccggtgcttc aaaattctct gtgctgacga cttttaactt 360
 ggcgagccaa tctaaacctc gtatg 385

<210> 18942
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 18942

tgccacgccg tcgtcgttct gacccaaacc cattttgggc tcgtacccat gtcccaacat 60
 tacagggcta ccattaatac aacatcggat gagcgggggt gcaccggggg agacccgaca 120
 taagcattgc ttaccacttc caaagcttga aaggatttct ccaagcactc ctccgcgact 180
 tctacatata gcgtataaga aggacaactt acaaggatgt cttcctcccc cgagagtatg 240
 attaactgcc cttccaccac aaatttcaac ctttcgtgga gcattgaagg gactaccccg 300
 actgagtga tccaagaccg gcctagaagg cagttatagg ctggggtgat atccatcact 360
 tggaaaatga tctggtagac gtgggggtcca atatgaa 397

<210> 18943
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 18943

agcttttgtc ccatttaacc tatcacgtgg agtggtttaa aattattatt attatataca 60
 aaactgtatg gttgatttat gggaaaaaag tgtaagaaaa gaaaaataag gaaggaaaag 120
 gaatagaaaa tatataaatg atattttttt ttcaaattgt atgataaaaa agaaataaaa 180
 gataacaaaa ttaataaaaa ctgtgtttta aattataaaa aaatttaaaa caaaaaagat 240
 aaaaaaaaa tagaaaaaat ttgtgccttg aaccctagct tcagtgccat gtgcatgaga 300
 ataatttgta attaaatcac atgcatgact cggaaatcgg aaattatatg cgttgcttaa 360

acacacaaat gagataaggt tttaaaaatc tagcaaatta aaa 403

<210> 18944
 <211> 426
 <212> DNA
 <213> Glycine max
 <400> 18944

taactcgaca cacaagtatc ctccaattag atggcagtct tgagtccttg agagcagtgt 60
 tatgctatgg ttacaaacaa aagttaatac aactcaagtg ttgccgattt gtaaccttga 120
 caaatgggtga tactgttgat aacgtaatgg agcaggctca taagaaagca ggggaattttg 180
 ggataccatg agccactcta gtatgtatta tttaagagaa aagagaagaa tgaaacctca 240
 atacagttag ataaatacag aaaaacaata aagctgcatg ttgcttccaa ataaaaaata 300
 gacattaatc tgttgtctca aaacaaagca aggcagcatt tccatttggt tccaaggcag 360
 tataaaacca cttcgcaaca agtagagaat tatgagggaa acttcatcac aagaacagca 420
 tacctc 426

<210> 18945
 <211> 402
 <212> DNA
 <213> Glycine max
 <400> 18945

cttcttatcc aatgctcatc ttgggtgggtga agctccttct tccatggctt attacctagt 60
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 tcaccattac aggatctcat tgaagctcaa agatccagcc tccataaaag ctccacaagc 180
 aagcttccat caagtggtaa tcagagcaca agagcttcaa gtaggtgctc cttaaacctc 240
 cattatTTTT tttttgcttt accttctctt ccattgttgt ttcttcattt tttctccatg 300
 tatcttcttg taacaccctg atatatatat atatatatat atatatatat atatatatat 360
 atatatatat atatatatat atatattatt agtaattata tg 402

<210> 18946
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18946

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 tgggttcttga atggctatca aaggcctaca tatatgtgac ttgagacacg aatttgctaa 120
 gagtttttca gaacaaaaag gtottatcct cttataaagc aaaatcgttt tatectctta 180
 caaatctctt ggctaaataa cttgtgattc aataaggaat tatttgagtg ctcaaattgt 240
 tcaatctatc tctttcaaga gagatttctt cttttcttct tcttcattct gaaaagggat 300
 taagagaccg aggggtctctt gttgtgaaag aattctaaac acaaaggaag ggttgtcctt 360
 gtgtgttttag aacttgtaaa aggaatttac aagatagtgg aactctcaag cgggttgcc 418

<210> 18947
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 18947
 agcttgtgaa tttattgtgc ttggtgacta attggtgcag aaaaacaaag taaagctcaa 60
 agaaacaaaa ttgaagaact gaagtagctc gctcagcacg tcttaggcgc ttagcgcaac 120
 acagtggctt agcgggcaac agaagcttag cgtcaagaag tatggagaag tctggaacat 180
 gaaggcttgc ttaacctgca gctcgtttct atgtttggga tgatccccac ttattcaaga 240
 ttggagcgga taatctattg agaagatgtg ttaccatgga agaagctaga agtatattat 300
 ggcattgtca caattctcct tatggcagat actacagtgg ggataggaca actgctaagg 360
 tgctacaagc tgaatttttt ttgccttcta tcttcaagga tg 402

<210> 18948
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 18948
 aagctccttc aactgcacaa ggctatcaat ataagaagag tatgcttgtg gaaccttcac 60
 ccgacgaaga cactgacaaa aacttatctt ttcctttcct gacaaaatat ggaacgctat 120
 gtgcaagtaa ataatcttcc catcaaacct tggatgcaac tgcgatcgta tgcccatatc 180

<210> 18951
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 18951

agcttggtta tttcatcggt gtttaccaag ctgctcaatg gtctggctat cttggagaag 60
 tccttgatga atcttcgata gaaacctgta tgtccaagaa aacttcttat acccttggca 120
 tttactgggtg gtggtaactt ctcaatgaca tcaatttttg ctttttccac cttaatgcct 180
 cagggtgaaa ttttgtggcc caacactatc ccttctcaaa ccatgaagtg acacttctcc 240
 caattcagca ccagatttat ctcaacagat cttcatagca cgggtcttag attcatcaag 300
 caacaatcat aggaaggccc acaaactgag aagtcattca tgaagacttc tatgcacttc 360
 tctaccatgt cagcaaagat ggctagcttg cacctttgga 400

<210> 18952
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 18952

tactcaagct tgaccaatcc cgaccaacc cgggcatagt cagtcagtgt taacctgtta 60
 tgtacctaa gaggcgagct cctggcagtc aacagataaa aggaactaag accacaaaac 120
 aaggaggctt gtgtggtggc tggccagttg tgaaacttga ttgatatatg ggatgtggcc 180
 tctggtaatc gattaccaag ggtgggtaat cgattacaag gcttaaaaagt gaagacagga 240
 agctaagatg gtctctggta atcgattacc aaggagtggt aatcgattac caggcttgaa 300
 aacgaggtca ggaagctagg agggcttctg gtaatcgatt accaaggggt gtaatcgatt 360
 accacgctta caaatgagac tggaagatta tggaggtctc tggtaatcga ttaccagtct 420
 gtgtaatcga ttacac 436

<210> 18953
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 18953

agctttattt tggctcatta cctgtcatag gcttctttta aaggctcggc tcggcttaca 60

taagagtatg ccttgaccta cgagcctatt taaaagtcta cttaaagacg tatttaacca 120
attaattgtt ttaaaaccta gtaaaatact aactaagaaa aaaaacttat aaaatttcct 180
gtacaaatcc aaaaataatt gataaacaaa atttatattga attcaagtta tttaaacaca 240
aagtatatca aaagaaaatg aaaaaaaaaat gcataatatt aaaaaatata tggattagag 300
atgatttata ctaatatagc caaataaaaa tatttaaatt atttgaaaat gtctttacaa 360
aacattattg tctttgaaag tattaatctc gttgca 396

<210> 18954
<211> 415
<212> DNA
<213> Glycine max

<400> 18954

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aataacttgt atgtatgata tatgatgtat aattgataac gggttaattat gagtatattt 120
tgggggttaaa ctatatagaa ttttgcaatc tttttctctt aatttttcct ttttgaacaa 180
ataattgtcc aattaatatc atttaagttt ttgtgcagag aatattaaaa gtgatggatt 240
tatgatgctc ggtgagtaaa ataaagccca aaatatatga taattcagga agacaagaat 300
aattatagaa aacgagtaaa ttaaggataa tgtggctaata caaggaaatg aggctaatta 360
acataaagaa actaattacg gaaaacagac atattaatga aagcatgact aatga 415

<210> 18955
<211> 392
<212> DNA
<213> Glycine max

<400> 18955

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gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120
ctccaactga gtcacgtac tcccacgtag cccatattctt cgtttctctc aacaccgggt 180
cccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca cacagcacia 240
gctatcacag ccaagcaaaa caaagcatag gcagaaaact ctgctcaaac accaaccaaa 300
aatcacagct tttccactc aaagacccca gtaacaattc cttcgatcca atttgctaac 360

cgttggatcg actccaaaat tttactggaa gt

392

<210> 18956
<211> 416
<212> DNA
<213> Glycine max

<400> 18956

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gatatacctgc tttgacgaac atgagaccta aggaaaacgg agagagtaag atggaagatg 120
gatcccatgt tgtgactgct gtcccttcat gaccaaattt accaccagct gaccaatgta 180
tacactcatc caatatcagc tgttttcatt acccatcatc ctatgaccca gaaacaccta 240
atgtctcaca tggaaacccc taaatcagaa tcaaaaccca tctgccgcac atgcgatacc 300
aaacaccacc tttgacacga accatagcac caactatgga atgaattatc cacataagaa 360
gcttgtgaaa tacaccctaa ttccaatgcc atatgctgac ttactttcat atctac 416

<210> 18957
<211> 391
<212> DNA
<213> Glycine max

<400> 18957

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acaaaacatg aaatgaattg aaagtctcgg attcgaacac ttaccggttg aagaccgaag 120
aacggacaaa gaacgttgaa gaacggtgga aaatcttcac ggatttgctc acgaaaacgt 180
ctcgaaagcg ttacggaagc acctcgactt gaattttctt cacagaaaca cttttttttt 240
ccacccaaaa caactgaaat gcatagcata agggtcaggg atccttgaaa ctgagcctcc 300
tcctcctata tataggagaa atggggaagt gcttgccacc cagaggcttc ttgaggaaga 360
tttctaagca caccccatat actaagttca c 391

<210> 18958
<211> 411
<212> DNA
<213> Glycine max

<400> 18958

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 tgccacacct aaaatatattt atgagaactt caagattcca ggccatctaa aatctaattg 120
 cattaatcaa ttaataaaga acaaacagac aatccagtgc ttgacttgca acacaacaaa 180
 ggaaacatgt ccagaacacc ttgctaagca ccaataacaa agtgagcaac agggggggact 240
 ctgggcaaca aggaaataga tgaaagaatt accttgttct ccagatacct gactgagcaa 300
 aatattggag acaggggaaca tggcttggat atggtccgaa atttgggaga tagaggggag 360
 gcaaaaaatg aggtagtatc aggggaaagc actgatggct cttctgatta c 411

<210> 18959
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18959

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 gctgcatggg cgacacggtg acgctgctgg cgagaatcgt gcgagtcgga ctacaaattg 120
 agattgatga cacaagagat tgaggaggcg gagatgaagc gggtcgaccc tagacgcttc 180
 catgctttct ttagcgatgg cggcgttacg tctccgcttt acccattcat tcattaatgg 240
 tttttgtaag tcccctttac tccttctatc atcattggta agtctctttt gctcttgatt 300
 gtgattgggt gtgcacgtga gagttattat ttttcccat ttggatatat tgtcgagcac 360
 ctgctgcat 369

<210> 18960
 <211> 389
 <212> DNA
 <213> Glycine max
 <400> 18960

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 cttggtagaa ggtcagggtc cggactaaag acctttcgtc tatgcttatg acatgagtgg 120
 tactatccac tatgggacaa aggtccctg tgtgaggata gggtgccact ttcaggcttt 180
 cctcttaaca ctgttgtgcc tgcttttgat ctgccttgat agtcacaatt tctcctgcc 240

aggtagggaa cttcatcttt agatgtggtg tagagacgat ggcttcaagc tcgttgagtg 300
 atttcttgcc aatcaaggca tagtaaaaag tatttgcac gacaattaaa tacctgattg 360
 taaagcttct ggtagttgg ccttgaccg 389

<210> 18961
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 18961

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 ttcagcatct catcaaacaa ttccttagcc attggcaagt tccccaactt gcaaaatcct 120
 ctaacaagaa ttgtaaaagt aaatacatca ggatcaggcc catgtttgat catttcatct 180
 tttagccgca tggcaacatc caagtcccc attctgcaaa gaccatcgat aagcgtatta 240
 taggtcacia cactgggaac aagaccctg aatcttaact cagcaaataa gagaaaagcc 300
 tcccctatgt tcccctatct ggtgtaacca taaatcagag tggtatacga aaccaaattc 360
 ggcacagat tctggttcac cataacatcc agca 394

<210> 18962
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18962

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 aacaagttct ccacattcac aaatcacgta caaaccacc atcccctggt gccacattc 120
 aactgagctc acgtactccc acgtatccct tatgctcgta tcacgcaacg ccaagcccc 180
 atcgattctc ccaagcttcc acaacatcca attaattcaa catacaatca tcatgaacta 240
 actcaaccga gaaaataagg cacaggcaga aaactctgct cataacacaa accaacatca 300
 cagctttttc aactaaaat accccagtta tattctcttc gttccaattc gctaaccgct 360
 ggatcgatta gaaaatctta ttggaagtct ctagtacata agactaca 408

<210> 18963
 <211> 379

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18963

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 gaggctcgta atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaatataaa 120
 cgacaatgac cttttactcg gatgtttgat tgagtcccgt aacatatcga gacactcgaa 180
 attgaatgtt gaacctctgt gcatattcaa acgacaataa atttttactc agatgtctga 240
 ttgagtcccg taacttatcg agacgctcga aattgaacgt tgaagctctg agccaataca 300
 aacgaccata actttttact cggatgtctg attgaggctc gtaatatatc gagacgctcg 360
 aaattgaatg ttgaacctc 379

<210> 18964
 <211> 410
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18964

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 aagttattgt cgtttgaatt ggctcagagc ttcaacattc aatttcgagc atctcgatat 120
 gttacgggac tcaatcagac atccgagaaa aaagttattg tcgtttgaat tagctcagaa 180
 gttcaacatt caatttcgag cgtctcgata tgttacggga ctcaatcata catccgagta 240
 aaaagttatt gtcgtttgaa ttgctaaga ggttcaacat tcaatttcga gcgtctcgat 300
 atgttacggg gctcaatcag acatccgagt aaaaatttat tgctgtttga atttgctcan 360
 agattcaaca ttcaatttcg agcgtctcga tatgttacgg gactcaatca 410

<210> 18965
 <211> 389
 <212> DNA
 <213> Glycine max

 <400> 18965

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 atcccaagtt tcagaatttc tacacctaga ccactccttg aaacactcct tttttactct 120

aaatttgctc tgaacatttt cattccacca ccacgattct ttacccttag gtccaaaacc 180
tctagattca cccaacgtct ctttaaccac ttttaataatc tcttgggaca tcttggtcca 240
catatcattt gcacttcctt gtgattgtcc acaccaaccc tcccatatct tttggtggaa 300
gattccttgt ttctcaccct tcaagtgcc aacatttgatc cttggtgcta ccataggact 360
tcttctcttt gccctatctc taattctta 389

<210> 18966
<211> 406
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18966

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atttttcacc atggagatgc agcggaaggc aaaggagaat aggagagggg aggcaccatc 120
cactagggaa taagccaagg aagaaggagc ttcaccacca agaattgcct tggataagaa 180
gcttgaagag gatgctntaa tggaggaaaa gaaagagaga aggggggagc acgagattga 240
aggaataaaa gagggagaga agtggaaactt tgaagtgtgt ctcataagac tctcattcat 300
cacagttaca acaagtgtta cacatgcttc tatctataga ctaggtagct tccttgagaa 360
gctgtcttga gaaaacttcc ttgagaagct tctttgagaa aacttc 406

<210> 18967
<211> 400
<212> DNA
<213> Glycine max
<400> 18967

agcttattac aaatcgaaca tgtgcaagga cactgaacaa ttttccact tctgagatgt 60
tttgatcaaa gaaagcacca ataactagtt ccacgcataa aacatcaatt ttgtcctgaa 120
aattagtcct gaatttggca ccacccatca gtttggacct tgatgttttc gaaaagcaaa 180
atccatttga tccccaaaat ttactgtcaa tttggtctta ccattatcaa atcagtcaat 240
tagtccttga atttgacaat cattagtcaa tatgctccct aatgttagga accaaattga 300
ttaataattg caatactaaa aaactaaatt ttttgtaatg tcaagagtaa gattgattga 360

tattgttaaa gtaaaggact aaatttcctt ttccgtaatg 400

<210> 18968
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18968

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 ccattccgac gctggaggcg tccgtctcca ccgtgaatgg gagctgaaaa nttggtaagg 120
 tgagtaccgg aactgaagac agagctgcct taaggtgttc aaaagctgat tgtgcttggg 180
 gtgttcacta aacaggttct tttgtggtga gctttaccaa gggagcagca atgggtggcat 240
 atccctttat gaaacgccga tagaatccgg caagtcccag gatgccacgc acaacccttg 300
 aagattgagg tatgggcat tgaaggatgg cctctacctt cgaggctacc ggttctactc 360
 ccttcttcga gaccatatgg cctaaatatt caacctgcaa ctgcgcgaat aagcattttg 420
 ataat 425

<210> 18969
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 18969

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 aggagtgtaa ggaggtgaagt gtctcctcca aaaggtagc taagaaggaa agtcattttg 180
 caataaagac aaatattaaa gaaacttccc ttcttagaca acctccacat tttctcctct 240
 ataaaagaac acttgtagc actaccatac ctcttgagct tgagggttatt ccttaagtaa 300
 atgagttttt ggatgagggt ttgggtcgta agagcttaaa tccttggtgct tttgggtggta 360
 tgatgaatgt gttgagtggg gtgcaaccct cttttgtaaa 400

<210> 18970
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18970

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agctctcctt gaaaagaaac aaaaaagaat gtgtgttggg actaaaaagt aaaaaccatt 120
cacacacgaa ggagctataa attaagtggg ttaagaaaag tgttgagtgg aatgacttgt 180
gggcttttta gttcatatgg gggcagctct aataacatct gctaaaaagc ccaacaaga 240
accacaagaa aacctaacta ctgaaatata atactagcta tcaactagag gttcactctt 300
ctgcttttct tattaattag tcatatgctt gtgttagttt atttctaatt ttatcatatt 360
gtagttgggg taggggggtat tttaaatcgt catattctaa ggcaacacaa cattccaata 420
agt 423

<210> 18971
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18971

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aatatatcga gacgatcgaa attgaattct gaagctctga gctaattcaa acgacaataa 120
tgatttgctc ggatgtctga ttgagtcctg taatacatcg agacgctcga aattgaatgc 180
tgaagctctc agctaattca aacgacaata actttttact cggatgtctg attgagtcct 240
gtaaaatata gagacgctca aaattgaatg ttgaagctct cagcaaattc aaacgacaat 300
aactttnttc ctcatagctc tgattgagac tcgtaataata tcgagacgat cgaaattgaa 360
ttctgaagct ctgagctaata tcaaacgaca ataa 394

<210> 18972
<211> 425
<212> DNA
<213> Glycine max

<400> 18972

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acgttattgt cgtttgatt agttcaaagc ttcagaattc aatttcgata gtctcgatat 120

attacgggtc tcaatcagac atctgaggaa aaaagttatt gtcgtttgaa tttgctgaga 180
 gttcaacatt caatcttgag cgtctcgatg tattacggga cttaatcaga catccgagtt 240
 aaaagctatt ggtgtttgaa tttgccgaga gcttcaacat tcaatctcga gcgtctcgat 300
 attataccgg actcaatcag acatccgagt aaaaagatat tgcgtttgga atatgctgag 360
 agcttcaaca ttcaatctcg agcgtctcga tgtattacag gactcaatca gacatccgag 420
 caaat 425

<210> 18973
 <211> 400
 <212> DNA
 <213> Glycine max
 <400> 18973

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 tatctaattg tattcattat gcgatataat ttgttgcaag tcattaaagg ataattatta 120
 agtactcggt gcgttaagaa aaaaattagt tgggtgcaacc aaaatcaatt atgcatgtac 180
 gatacatcgt tgtcataatt gacaacacat aacgatatgc atgcatatta aagtttgagc 240
 atgacacgac attgacttag taggaaacat aaacacgaaa catgttcacg cctgttcttt 300
 tgtaaaaaaa aagtgaagca atctatcggt gagaaccatg tatatatatg agacgtggca 360
 tacgctaata aatcacacat tatcttgctt tcacatactc 400

<210> 18974
 <211> 423
 <212> DNA
 <213> Glycine max
 <400> 18974

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 tgtctacaac ttgcaaacta agaaactcgt cattagtcga gatgttgaag ttgatgagta 120
 cgcttcttgg aattgggatg aagaaaaagt ggagaagaac gttcttatac ccgctcaact 180
 acctcaagaa gaagctgagg aagaaaaccc aggtgaacca ccttcgcctc caccacaaca 240
 acaagatcaa gaactatcat caccagagtc tactccaaga cgagtaagat ctttggtgga 300
 catatatgaa acctgcaact tggccatact caaacctgga agctttgaag aagcgtcaaa 360

gcaggaagta tgggttaagg caatggaaga agagatatag atgatcgaga aaaacaacac 420
atg 423

<210> 18975
<211> 401
<212> DNA
<213> Glycine max
<400> 18975

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gaccacggtt cttccttccc gcgatgcttc ttttcatgtc cgctgagtg ggcttatatc 120
ctaaaccata cttccacga ttcccttggg tttttatcag actagtcatg ccgccattgt 180
ctttgcctaa acccatcccg gggttcataac cgttcccaa cataactcgg gccatcatta 240
ccgcgcctc ggatagacaa gggtgcccac agagtgagtc cacggaggaa atgctgacca 300
cctcaaaaga ctggaaagcg gtttctaacg attcttctgc ggcttccaca taaggcatgg 360
aggatgggca gtcaccaag atatcttctc cgctgacac g 401

<210> 18976
<211> 436
<212> DNA
<213> Glycine max
<400> 18976

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tatgtgtaat cgattacaca gtgcaaattt tgaattcaaa ttttaatagc tgttgtaaat 120
catttttggc cattggtaat cgattaccag agagtaaattc tcttgaaaaa gactttttta 180
tttaaatttc ttggccaaac cttttgctac ttcaattgga attcccttcc tatttaatat 240
acccttctta agactctaga gactgtcttg atcatccatc ttgaatatct ttaatttctt 300
tgtcttgcac aaatctttga gaagcatgtg atccatgtga tcctttggca tcatcaaaac 360
attcagcttg atcctttgtc tacaatctcc cgctttgtga tgatgacaat ctctgaaatc 420
aagacaagct atatac 436

<210> 18977
<211> 390

<212> DNA
<213> Glycine max
<400> 18977

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gcaaaagtca tacctcatgc atatatttat ctccatccat attcaacaaa tcatggcaca 120
tagcatcata ggtccattca tgaatgacag gtgcaatctg tgggtgcagat tcaatacagt 180
catcaaaaatt gagagctata aaaggagaca ttcattattca tagtgaagag acattttttaa 240
cctgatctat ggatctgtca acaatgagca tatcacaagt ttcattatgt ggaaaaccgg 300
gaatggtaga tttatattta gaaacatgt cccaaacagc attagcaagc ttggtaggaa 360
ctaattcacg aaccgctgct gctgtagact 390

<210> 18978
<211> 415
<212> DNA
<213> Glycine max

<400> 18978
tgagcatgat ttgttgaacg agaaagcaag atttgacact ttatatagcg catgatacga 60
cattcaaaaag tgaatgaacc agcaaacaat tgaccaatca tatcagcatt ttcattgcaa 120
accatattgc aggcattcatg atttgaataa atatgcttcc ggatcatcaac caaagtgctc 180
tcaaaaagta caccttgatt gcttaatttt gtaaataaat aaaataaaga ctgatcaacc 240
acaatgggaa ttttatgcac ctccagaagag ataacatcat cccgaatttt cagattatta 300
taaaagatac ggactaactc atgatagtat ggcagtttga gagtcataaa atcgattaat 360
tcagaatttt gaaagacttg ataacaataa aaaaaatctc tctttcaaga attat 415

<210> 18979
<211> 384
<212> DNA
<213> Glycine max

<400> 18979
agcttttatca tggttggaca tgatatatgt cagggtttgg tttagttaaa ggataaaagg 60
ggatgtccca cattatttcc atgacacaaa tgcaacaatg atgatttgga aattttatgc 120
aaaactagtc atgcatgcac ctatgtggac actcaagtgt caaactttta tggatcatgtg 180

atgctagggc tcaagattca tttcctctat tttagtcaac ccagtgtttc caaaatacgt 240
 tcctttatca atttgtgcat tcatccgagt ctattttcgg gtgttogaat aactttcaca 300
 gcattttacc ttcaggtgta tacacattat ttcaaaaact gggatatgatc agtgaattgg 360
 aaattatctc ttttacaagc atgt 384

<210> 18980
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18980

ntattccctt aaaaatcaaa tgccgaaaac gtttcnatgt gtgagtaatt acacatgttg 60
 ggcaacgcgg gcagtgcggg cacctagaca ttgatactat accctatggc cgcctgaag 120
 ggcccagcct cggactctga ccctgacctt gaccctcacc accatcctat tccattccat 180
 tctctctctc tctgttccat tatgccactt gtttttattt ttcataaact tagtttcact 240
 tggcgccctga taatgttcaa cttttccttc aatttgttct aaacattcac aatgtaccac 300
 tttggtacaa tataacttaa cgatgcatag tgatantttt acctacatga ttgacactta 360
 attntgcttc ttagatatgt agttaaacctc taatctagat tttagagaaa cattt 415

<210> 18981
 <211> 395
 <212> DNA
 <213> Glycine max
 <400> 18981

agctttttaca cgagctagac gcatggcaat gaaggttcaa ctacaaactc taacaaaagg 60
 gtatctttct atgcttgaat atattgagca caaacactcc attgctgact ctcttgctga 120
 aaatcttcat ccaatttccg atgaggatct tattggttat attttaagcg gccttgattc 180
 ctcttatagt gctttctcaa ctgctttcat gatgaagtct gatgatgtct ttgttgatga 240
 tcttgctggc cttcttcttc aagaggaggc tcgcttagag caggaacatg ttcataaagc 300
 tgttggttgg ttacagccca ctaaccatc cccacttttg tctactcctg ctatttacac 360
 tacaaatcgg ttctcagacc ggtcctcttc cacca 395

<210> 18982
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 18982

tgaacgaatg tgagacacat cttattcaac cttgtgtgat tttgactcca tctcattgaa 60
 gcgcatatcc acttgtaatt tcaaagtgtc aaacctttca ccaacaaagg tttgaagacc 120
 attaaacctt tccaaaatct ttgaaagaag agatgaatct tctccatcat gtcctttcttc 180
 accaaccatgt cgagcaccct tcttcaccca agagccatca tgcttttttt gataaccaaa 240
 ggatgctatg actgaagcgc ctgtaaggaa ggatctcttg attggaacat aggggttcata 300
 atcaagaggg atgttgaagt gttgaaggaa aagggttaaca agatgaggat aaggcaatgg 360
 agcattcaat cgcaatgcct tgtgcatgcg atatctaaca agatgtgccc aatcaat 417

<210> 18983
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18983

agcttgtaga cttcgcttat tttcttcttc aatctctttc atgacttggt ccctaattgg 60
 tactactatt tcagccaact gttcttttgg gaatgctatg gatgaggtag ttgaggcacg 120
 tgatgtcctc ccatagtatt gactaattgt gacccagac ccagctgcac gaacacaacc 180
 tccatgatct ggtcttccta tggccatggt aagtatatct tgacgaccct gggggacaaa 240
 ctcaccctgt gtcacttggt cttccaacga gtcctacatg aagaacaaat ttcacatcgt 300
 tagatttcac tgtcattgta aacaacataa caagtagtaa ttatatgtga aacaacatgt 360
 cacatttaac ccanaattga aatt 384

<210> 18984
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 18984

taagctcctt caactgcaca aggcttttat gttagcttct tatgtcaggg ttagcattat 60

tttgaaaatt ttgactaaat ttgcagagca tttcgcattg gtctccaagt acacaacatg 120
 acatcgggtga aattaatttc tcgataatca agtatgcact caaagaacaa cttgaaatgc 180
 attgtaccga aatttcatca aattaatcaa aataataata accttaacga atgaatctaa 240
 cataaaaaata ccagtctccc caaactgtcc aaacggacaa ttaaagacta aatacaatga 300
 ctaatgcaaa ttgtccgcta gaattattgc attcagtctc aaacgggaat ctaagggtgca 360
 ctcatcatga agacaatttg tatagcatat a 391

<210> 18985
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 18985

ttagctttga ataataaaat cgaagtctct aaagtccat ccgttggtcc agaattatgg 60
 caattgagag aatgacatta ttcactccaa tacttgccat tttttttcca tcatgtttgt 120
 tgtcaagttc cctagctctt aatggttgat cgagtggcct cagaataatt aaaaaggag 180
 gggtgaatta attatttcta aacctttact aattaaat tactcttcta aggcttttac 240
 taaattgtta aaagaatgag gagtagaaga gaaacttaac agaaagtaaa agcggaaatt 300
 aaatgcacag cggaaagtaa aagagtatgg aagaaggaaa caaacacaca agagtttcta 360
 tactggttcg gtaacaacct gtgcctacat cc 392

<210> 18986
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 18986

tgtacacata ctaaggtttc tccttatctt caaatctatg tgtatgcttc acatacactt 60
 cttcatttat gaatccattc agaaaggaac tattgacatc catctaatag agcttgatgt 120
 ctttatgtgt tgcataaggct aaaagtatta tgatggcttc aagtcttgct attggtgcaa 180
 aggtttcttt atagtcaatt ccttctgtt gactataccc ttgagtaact agtctagcct 240
 tgttttttac tacttctcct tcttcattaa gcttgttttg gaacacccat ttgggtccaa 300
 tcgctaaccg attcttagga gggaaacaag attccaaacc ttgttcttag tgagttgacg 360

tat ttt tct ct tcc at aga ag tcacccaaga atattcatgc aat 403

<210> 18987
<211> 380
<212> DNA
<213> Glycine max

<400> 18987

tagctttgtt atgtcaaatt ttgggttcatt acttttactt tcttgtcttt ttatactttct 60
cattataacc attgattact tttccttaaa attgatccaa tggctgataa aaaaaaaatc 120
ttaagttatt atttttttaa aacttcatag agaagcattt ttacttttctc tctctttgtc 180
aactcttgac aaaacccatt tccatctctc cttegcaccc catttcttct tcttctcttc 240
ccatttcgtt tat ttttcccg acaattccca acagtgtgcc gaggtgagtt ctgaatctca 300
tccttctttt ttctgttttc catttccact tttgggatac taatgtcaaa gcttcttgat 360
agttttgatt tgacaatcat 380

<210> 18988
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18988

ntgagccaaa atcctgactc accataaacc tttcccattt gagaatgcc aaccttacc 60
tcggaagcca aaataaaaaa gagagagaga gagaagagaa ggaaaatttc caatcaaagg 120
aaaaaggaga aggaaaattt caaatcaaag gaaaaaggaa aggaaattcc caatcaaaga 180
gtgggagaaa gcaaaaagaa aagaaagaac attcccaatc aaagaatggg agaaagaaaa 240
aaagagagaa gttaaaaaag aagaaagctc ctggtcagag aaaccagaag aaatgtgccg 300
agaggtcctt ggaccagaca atatctaaac aatacagaat tgttcccaaa tgaataaaaa 360

<210> 18989
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18989

agctttacta agcatgagat atattgggta agcaacaagt ggaagtctca ttattacaat 60
 ttgttgatga taccatcttt tttgoggaga atacactgca aaatatcata tgcacaaat 120
 ctatcatgag aagttttgag ttggtatttg tactaaaagt caactttcat aagagtagct 180
 tgggagggat tgcggtgaat gctcacttta ttcataaggta tgctcactta ttgaactgct 240
 cgtccatgtc tttgcctttt acctacctcg ggatccctat tagagtcaat ctaagaaggg 300
 agtgtgtggg aaacattttt agataagtgt aggaaaagat taagcaaatg taagcaaaaa 360
 tttatttcta tgggggggaga gtctottana taaattcagt tttt 404

<210> 18990
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 18990

aatactcaag ctttgacttg agttatcaag agattataaa tatgtggata tggcatgaat 60
 ttcaataatc tataatctat ctttaaactc tctctcaaca tcattcaata tctttcaact 120
 ctttctacac aattttctga ttcattttctc ttcatttttc taaaagtttt tgttcaacac 180
 tttcttttcc gagaaaagtt ctttgttcaa aaacttgtgc tattcatctt tttcattctc 240
 ttctcccttt gcccaaagaa cgaaggacta accgcctgaa ttcttttgtg tctctcttct 300
 cccttacaaa agattcaaag gactaaccac ctgaaaattc ttttgattct tcccttcccc 360
 ttaagcaaaa gatttcaaag gactaacctc ctgaaatatt ttttgtttcc ccttacaaag 420
 attcaaagga ctaa 434

<210> 18991
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 18991

agcttctaca ttcaatttcg agcgtctcga tatatgacgg gactcaatca gacatccgag 60
 taaaaagtta ttgtcgtttg aatttgctca gagcatcaac attcaatttc gagcgtctcg 120
 atatattacg ggactcaatc aaacatccga gtaaaaagtt attgtcgttt gaatttgcac 180
 agaggggtcaa cattcaattt cgagcgtctc gatattattac gggactcaat cagacatccg 240

agtaaaaagt tattgtcgtt tgaattggct gagagcttca acattcaatt tcgagcgtct 300
 cgatatatga cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360
 tgagagcttc aacattcaat ttcgagcgtc tcgatatatg acgg 404

<210> 18992
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18992

ttgagccaat tcagacgaca atatctttnt actcggatgt cttattgagt cccgtcatat 60
 atcgagacgc tcgaaattga atgttgatgc tctgagcaaa ttcaaacgac aataactttt 120
 tacttgatg tctgattgag tctgtcata tatctagatg ctcgaaattg aatgttgatc 180
 atctaagtaa attcaaacga caatatcttt ttactcggat gtctgattga gtcccgatcat 240
 atatcgacac gctcgaaatt gaatgttgaa tctctgagcc aattcaaacg acaataactt 300
 tttactcgga tgtctgattg agtcccgta catatctaga cgctcgaaat tgaatgttga 360
 tgctctgagc aaatttaaac gacaatatct ttttactcag atgtctgatt gagtcccgta 420
 a 421

<210> 18993
 <211> 403
 <212> DNA
 <213> Glycine max
 <400> 18993

agcttttgat gaggtagtgt tgaaggggtga aacttcctgc ttttattggt gaccacagag 60
 tggtagctgg agatatgtcg cgggggtcag gagaccttgg ggacgtcagg tggggtgcta 120
 ttgccccaaa ccaagcttga ccaatccga cccaaccgg gcatagtcgg tcagtgagaa 180
 cctgtgatgt acctaagcag gcgagtcctt ggagtcacac agataaaagg acaaagacc 240
 acaaagcaag gaggtctgtg gtggctggcc agctgtgaat tttgtgtgac atgtggtttg 300
 tggcctctgg taatcgatta ccaatgggtg gtaatcgatt acaaggctta ataataaga 360
 caggaggcta agacgggtctc tggtaatcga ttaccaaggg gtg 403

<210> 18994
 <211> 408
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18994

 tgaaacacgt cactaacaac atttccttct cttttgccaa tgtagacatc ttattatgga 60
 gacagccatg gtttcttcaa tactttttat tcacgtgaat cccaatatat ataccaattg 120
 aggcgggtttc cttctgaacg ggaacggagg tttcagagca tcaccgaact gtgcaagtgt 180
 gacatcagca tcggcctcga tgaacatgac ccgcttgaga gtctatctca gataggatct 240
 taatttcgcc attattggtg atattagcta caaataagtt gtgtgactca tggagttcgt 300
 ccagcgttat tgtataggca tggaattgat cattatccac atgtgtggat aaatttcttg 360
 aaagccgaca agaaaataac gaanacatat tcaaattaag ttttgaat 408

<210> 18995
 <211> 385
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18995

 agcttctgaa acaggtttgc ttacaattgg tcctcgattt ggggggtgcc ttagatgatgc 60
 tgctcgctac ttcaaggatg ctcatgacag ggtatgatta gttctttcct gtgaagctgg 120
 ttggaactag aataaaaaaca tcgggggagt gtagaatgaa cctaattgggt taaagaatta 180
 ttttataaaa taaacttaga accaggggaa aaattcaaaa acctcagatc ccctccagcc 240
 ccaaaaaaat aaaaataaaa acaccacgaa cttgtcttt catctaattgt gtggtacttt 300
 ttactgtgtc ttgtcacagg cgcttagtcc ttatgagttt gttgaaagta tgaagaagaa 360
 gggaattngt gtgnnaggaa taggg 385

<210> 18996
 <211> 415
 <212> DNA
 <213> Glycine max

 <400> 18996

attataatgg ctggaaagtt cgagaatact agactagtca cattcgagaa tccaaatgac 60
 tttatatattga tatcattcaa aaaataaaaa atctttgtga ttttgagctg agaatatattca 120
 cttgcaggtt gcaccatggc ggaaaattca cgtgaaagcg cttcatggag ttggtattca 180
 cgtaattttg taatcctctt ttctatttat ttataatata tctattgtat ctcttctaga 240
 tgatatatatt atgatggaac ttgcatgcca attaagaagc aataatagaa ctatatagca 300
 attcacaatt gtaatttgca ttccacaaa cttccctatg tagagggtac tgtacgtgta 360
 atgctataat taagcaattg ctatatatca actgacgtgt caatccacct ttcta 415

<210> 18997
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 18997

agcttcaaac tcgaaggtgg aggacacatg aacgaaaatt caattcatgg ggctccgaaa 60
 aagggttgaga atggagaatt gcacaaagca atcactacgc atagctccaa actcgaaggt 120
 ggaggacaca tgaacgaaaa cgcaattcat gggctccgaa aaaggggtga gaatggagaa 180
 ttgcactaag caatcactac gcattggtcc acactcgaag gtggaggaca catgaacgaa 240
 aacgcaattc atgggggtcc gaaaaaggtt gagaatggag aattgcacta agaaatcact 300
 acgcatagct tcaaactcga aggtggagga cacatgaacg acaattcatt catgggggtc 360
 cgaaaaa 367

<210> 18998
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18998

tctacttatg tggcagggcg ggcttacttc actttcttgt ctccaacgtg agctctgacc 60
 actgttcttc cttcccgcga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120
 accatacttc ccacgatttc cttgggtttt tatcaggcta gttatgccgc cattgtcttt 180
 gcctaaacct atccgggtt cataaccgtt cccaacata actcggggcca tcattaccgc 240
 cgcatctgac agacaaggtt gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300

aaaagactgg aaagcgggtt ctaacgattc ttctgcggct tccacataag gcatggagga 360
 tgggcagctt accaagatat cttctcgcgc tgacacgatg accaagtgcc 410

<210> 18999
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18999

agctttataa gcgcgggtct gggagacaaa ggtcaagtgg tcgcatatg cgaagatgat 60
 gttccgagta cattggattt ggtacgacca tgccctcctg atttcagct gggaaattgg 120
 cgagtggagg aacgccccgg catttacgca atgagcataa tgtaaacctt tacgggtttt 180
 aaaagctcta tagttgggcc taggcttttag agtttttctt tttgttaagg ctttgtgtct 240
 tttgtttttg aattttcta acgaggacct ttcttcatct gttcctcgt ctctacctat 300
 tctcattcat ttgcatgttc acttctttnt ttgaaacggc agatccgatg acgagtcctc 360
 cgaagtacta atacctggga cccgcttacc g 391

<210> 19000
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19000

tgagatgagg aagtgttgaa gggtgaaact ttctgctttt attgttgacc acagagtgg 60
 acctggagat atgtcgtggg ggtcaggaga ccttggggac gtcaggtggn gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aaacatgcga gctcctgtca gtcaacagat aaaatgaaca aagaccacaa 240
 agcanggagg cttgtggtgg cttgccagct gtgatttttg tgtaatatgt ggattatggc 300
 ctctggtaat cgataacaag gttgggtaat cgattacaag gcttanaatt gaagacagga 360
 ggctaagatg gtctctggta atc 383

<210> 19001
 <211> 391
 <212> DNA

<213> Glycine max

<400> 19001

tcaagcttga tcgatgtatg gcggttggg ttgtgacagc tctagcagac ttgattagac 60
aatccatctt gctcatcctt tatggtttca tcctatagtt cctaagaatg gaactcttgt 120
aggcttgatc aatttgtaat ttagttgagt aacatatact tgtccattat ataaaaataa 180
atctaattta tttatgcatt tgcgccaatg tcccattctc ttttttatgt ttgtgttcgc 240
aagagtttaa tatcattatg agacctagtc ggtttcttga taaaattggc ctttggttaa 300
aatcatctta tggatgattt atcgcttgca aggcatagta ggtctccttg ttctctaata 360
acatcagtcc ttactaacat caacttgtgg a 391

<210> 19002

<211> 415

<212> DNA

<213> Glycine max

<400> 19002

tgaaggagtt gatgagctag gccatccaaa ctccggagct tcaccgatat ttggcacgat 60
tgtaggatt cgattactct atccaatata aaacaagaaa aatgaatgtg gttgcagacg 120
cggtgtcacg gtgtttggag ttgcccaatg cttcatgttt catcctctca atgccacatt 180
ttgtgtttgt ggaagatctc tataaggagt tgcaatcgca taatgacttc atcactctga 240
gggagaagat ccaggcgaac ctagaagatt acccggatca cgtgttaaca accaatttcg 300
ttttgcatca agggcgatc tggctacctt cagactacac catcatcaag gctctgctca 360
cagaatttca tcaaactcca acagggggta atatgggttt tcgaaaaacc ttgaa 415

<210> 19003

<211> 326

<212> DNA

<213> Glycine max

<400> 19003

tcaagcattt ccagtgcga gtcgtgaaag gaggccagc tacaaccaa acacacgcta 60
tcccacaaa agcaacattc gacaaggatg gacaggataa agagtgtgta acgggttaga 120
acaataggag gaacgaaatg aatggaaca aagagcacag aagcgaaaca taataaaata 180

aaagttctac tcatagcaag agatatcata atggaacgga aaaaagctcc tgatcaacta 240
gaaggaaagt gaacggacga gaccactgac aaccatctaa agtgcgatac tacctacagt 300
gtataaacac cagacactaa tccata 326

<210> 19004
<211> 344
<212> DNA
<213> Glycine max

<400> 19004

tggtacttct actgaagctg agtttctacc ctctctctgt tctgacatag aatctctagt 60
gcagctgaag gatgctatag ggttcttgat ccttcagatt cagtctttgt ttcttgtttg 120
ttctttttct tggattttatc tctcattaaa aaaatatcaa tgaaaaatat gatggattaa 180
ctggttttcc tttttctggg atcggagaaa agataatgat tttcattggg ctcatatttc 240
agtatttgga tttgtacatt ctttattggg tattatctat tcattcatta tatcagtaaa 300
tcctactttt tcttgataac aatatttgat gcaaaaataa aata 344

<210> 19005
<211> 393
<212> DNA
<213> Glycine max

<400> 19005

tctgcatgct tgcttattgt cattcaaagc ttgtttgttg gtgtgtattg caaccacagt 60
agatgaatgt ctgcgtatag aatgtagcca tgattggaga tgagggttgc taggaaaaaa 120
aaagttaaaa atcacaggtc acatcacatg acacatgaag taaatggaat taacaaaagt 180
gttagtttta aaaaaaaagt caatactaag ggagttttat atatgatgta tcacgatcgg 240
acgacaatat aaaattaaat atttttttta aaatagaaaa atttggagaa ttgtcattaa 300
tgtgtattta agaaaaaaat atgaaaaaac taaaataaat gaggaatgat ctataatttg 360
agaaaaaaa gaagatctag gaatcatcta cgt 393

<210> 19006
<211> 373
<212> DNA
<213> Glycine max

<400> 19006

tgtagaatgg ctagacatga tacatgtcat gttttggttt ggttcaagga taaaagggat 60
gccccacatt atttccatga cacagatgca aaagtgatga tttggaaatt ttatgcaaaa 120
ctggtcacgc atgcacctat gtggacgctc aagtgtcaaa tttttatggt catgtgatgc 180
tagggctcat gattcatttg ctctattata aatcaaccca atgtttccaa aatatgttct 240
tttatcaatt tgtgcattca tccagatcca ttttgggcgt ctgggaaaat cttcacagca 300
ttcacccttc atgtgtatac acattagtgc aaaaactagt tatgatcagt gaatttttcc 360
aaagacaagt tgg 373

<210> 19007

<211> 446

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19007

tntttcgctg caacaaatgc cgcaatcgct tccagcactc gtatgatctc tttctccttc 60
tcaaatacata accatcatatc aaaaatacata attacatgca cttcatatta atactccaat 120
atctctcttt atcataacac aatcatcttt aattttcaca atacctctaa tctctattgg 180
tttcataatt aaccatcata cacaatctt gatcatcatg gcaatactta tgctattgct 240
ctacttttta tgttcatata tgtgtagctt cataaaacat gtatgctntt tttttggtac 300
ttttcaatgt tgggtgttact tangagtnga atanngctta nagttattta atatatatat 360
atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat 420
atatatatat atataatatg nntttt 446

<210> 19008

<211> 565

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19008

gcacccagca cgtcacacan cgcgagaccg ccataaaaga aaccataann tactcccccc 60
cncccccccc cccccggaga ggatgatgca tagaaagccg aanncancnc nnnncccgna 120

ganccnagnag agncgaacng cacgcacgca agcgctgtac ttatacctga ctcaccatag 180
accaggagccc gaggtgagaa tgacaaatct taccctccgga agccaaaaga acagaaagaa 240
cgccgcccac caaacagaac gcagaaaaga acagaaggaa cactcccaaa caaagagggg 300
gagaaaggca aaagaagaga aagaaaattc ccaaccacag aatgggcaca agcgacaacg 360
aagaagaaaa aggacgaaac ccccgacagg gaacaaagag acagaaaaca gggcagaagg 420
cagtgaccgg acataccgaa caaacagaat gtaccaatga acaaaagagg aaagaaacca 480
cacctaaacg gcctccctc gataccacca caaacggcg ctacgactga ttcggctgaa 540
caaacaaaaa cagaaaaaaa agccn 565

<210> 19009
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19009

ttacgtcctt ggcacaattc ataagaattt cttctaagat tggcctaata taaattgtat 60
cttgaaataa tagacaattg ttattggttc agcccataag tgtttaaggg ttgagtgatc 120
actaagcatg gtcctagcca tttcctgaag aaatatactt ttcatttacc tctaaacata 180
atctaatttg gtggtcttgg agttgaaaat nggtggtgaat accattctct ttacaaatat 240
ttacaatatc ttttcaattc tccccatgtt actttaattg agagatacat gatatgacta 300
ttgattcttc aaaaaataaa cttaaatttg catacagatt a 341

<210> 19010
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19010

agctnttagg tttgtggtca gcaaacgcat gacctagcca cttttaatta tttacacgat 60
gaacaaagac gatcatagac aatgaccgct gttgagttca tttaatgtaa ttacaaaatt 120
gccactatgt gattttctaa gacggttctt tatgaccgtc ttagaaccg cgaagtaaat 180
agcacttata atggaaataa ttacaaaaat gtcaccgctg tgctttctaa ggcggtttta 240

cagaaccgtc ttaaaatagt tgtcttagaa aactgttttt gtagtagtga ctgcccagaa 300
 ttagctgaga gagatcgctg caccaacaat tggttctcat ggatgatgca aatagttcat 360
 ccctantttt tccttgatga tcttcctcct tccagctat 399

<210> 19011
 <211> 403
 <212> DNA
 <213> Glycine max
 <400> 19011

aattcatttt gctatccgac ttttaataa taataataat aataacctaa agggttatat 60
 taacattttac atttatataa taaaataatc tggtaggctt taaaatattt tttgaatgac 120
 ttaaggggta acatttttaa ctaattatac ttttataaaa tcattaaact aattttatttc 180
 ctaaaaaaag tgtggtatga cttgactgga cgtaatctgt gtataaaact ttattttacat 240
 tatcaataaa aaattatcct ttatatgatt ttggtggtaa gtaattaaat tacttatcat 300
 atattatttg gaatgagatt aaagtataaa aaatgggtaca tgcatatatt atttatttaa 360
 taattatata tcctattaga attttcattc cttttctata tct 403

<210> 19012
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19012

agctttcttc tttttttcct acaaataagg ggagaagtga agagaaaaaa tgttcagccc 60
 tcctagtaaa tcgagaacca cttgaaatta gtgaaaaaaa ttggttccgt gaagaatata 120
 caagccgagg cgcttccgta acgtttccat gggtgatttc gcgaagatct tcaaccgttc 180
 ttcaacgttc ttcgatcggt cttcatcggt cttcggtctt caaccggtaa gttcccga 240
 tcaaactttt caattcattc tatgtacctt agtgggtctt atttgtttca cgtgctttta 300
 ttttcatttc atttactttt catacccat tntaacgtgc tgtagtcatt tgcttaagtc 360
 attctcttgc ctaatcaaag aatacaataa aattccaccg atcatttgaa tgtaatatcc 420
 gtaatttctg ttaaaaagaa tccga 445

<210> 19013
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 19013

tctgaacttt gatgaagccg catcttaaga acaatgattt tgactgcata tgaatcttca 60
 aggctggata aaaagaaggg taaaacttac catgataaaa agctgcttaa gaagaatttt 120
 caaccaggac aacaagggtt actattcaat tcaaggggtga aattgggtact tgggacgctc 180
 aaatctaaat gggtagtgaa tggacaaaag ttaaagctgt accatgggtgg aactattaaa 240
 agattaacca ctattctatc cttccaagaa taacaaagaa ctatgcatca agctaagac 300
 gttaaacgag cgcttactgg gaggcaaccc gacacttttt aaattttgtt ttcttgcatt 360
 ctaattcagt tgga 374

<210> 19014
 <211> 220
 <212> DNA
 <213> Glycine max

<400> 19014

cgctatggat acatttttga cagaccaaag tctggttttag cgtgtaggtg agaccgcttg 60
 acaattgttg acagcttgat cctctctatc tgcttcttga gctgccataa gttgacgaag 120
 gcctctatcc attctggcat cacgcgggct actagctcct tcgataactt caccattggg 180
 ttatcacagt tttgtgggtg cacatatata ttaaaggagc 220

<210> 19015
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 19015

cggaaagttt agtagatcgc cactactttc ctttcaaaga caaacccaat tcttgggaata 60
 gctccgctat gatgatgcgt ggtgggtgag taggtgaagc atcttttact ctatagcaag 120
 aatggcaact cttgtatact taacgaagat ataatggag ctgctaacgg cagatacttt 180
 gcctccatag gaaaactaac attttcttat cctgaatttt tattctttct attggatctt 240
 cttcagtcgg aatctcaaca ccagcttctg aagaggtgca ccaccactgt ataatgcctt 300

cctcgacgat aagagacaga tggaacaaac gtaacaataa tt 342

<210> 19016
<211> 239
<212> DNA
<213> Glycine max

<400> 19016

ttctttgttt agatacttac ccgttgaaga tcgaagaacg atgaagaacg aatgaagaac 60
gtcgaagaac cgggtgaaatc tttgcgaaat tcctcacgga aaacggttacc gaaacgtttc 120
ggaagcgccct cggcttagat tttctttacc gaaacaattt ttccaagcaa attcgaaaga 180
gagaaaagta cctcaagggc tcaaccccggt tcttcttgcc ttctctccct atttatagc 239

<210> 19017
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19017

tatctgcngc tggaacagtc aatggagacc ttttacaacc tccatcgctc tttgtgccca 60
aattccttcg atctgtcaga acatcatgca aggcaagttg gtcttcgatg tcatggaaac 120
aacttcttgc tacctcggtc ctttctccta aacggtgatt ttgctcgcca attgttcatt 180
agatgactcc attgaagctc atgtcacgta ttcttgccca taacagatat aagatacaag 240
ctactttatt catttgacta gtccactgcy caatcataga aaatatttca agcaaagctt 300
tatgcatagc aaagacataa agtctatctt aatatcacat acagcagcac caatgccaga 360
aagttcggct gcatacgaat atattttaaaa gactattcta gcaagttctt taa 413

<210> 19018
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19018

ctaaactcaa taaccaaagg ggagaatatt tgtgagtgat ccttttgtag atttagcttg 60
cattccgttc ctgatttcaa ggnttgcatc atccaaaaag gggagattgg agaaagcatc 120

ctcatgatga tgaaccaagc aattttgatg atgcccagg cccagtgat tgactcaaga 180
 tcgatttaag acttccagat caagcatcaa gaatcccatc ccagattcaa gattccagag 240
 aagaaatcac gaagcaataa gtcagacttc atatgtgata agtattaaag aatttttcaa 300
 aaaccaaata gcacagtttt tgtttaccaa aagatttttt taaaattttc aaaagtacca 360
 aaaggattac tctctggtna tcgattattg agtattcagt atcgattacc agtgaccact 420
 ttgatttttca aatgttn 437

<210> 19019
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19019

agctntttct agttgatcat tgcgggtaat tagttgcacc ataatagcga aatgttcctt 60
 agatgcttca attntatata taggcatcga attgaagttt ctacaagcat catcaacaaa 120
 tccaactttg tcatatagat agagtactac aaattagaag agtaaacaac ccacgaattt 180
 cgatctacaa agttgaattg aaacaaaaat tagaaatggt ggtttgacga anattggaaa 240
 agttgaatta aaacaaaggc ttaattataa aatataggtt taattatgtn taaataattt 300
 aaaaatcana attgatgtat tttttataga aatattcana acttatttta tataatanaa 360
 gtataatata ttaatanaat aaaacttata tttaatataa tattttaatt tatgtgaaaa 420
 tagaatttaa tttatatatt atat 444

<210> 19020
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19020

gagtgcctga actgattgaa cctgatacgg ccttaatcta actgactata agtctctca 60
 tttttgagaa taattatgag agcttcatcc aaggagaaaa aaaggtatct ccacgccata 120
 caccatatgg gagattaacc aatggtatca tcacaagtcc agggtaaaag attcaaactt 180
 ttaataatat tatggaaaga tcgagcatag aaccaagaag atagttatat gagaagcaca 240

tataccaaat tattttcagc aaaaatcaaa gaattttgac attacaagtg tcacccatta 300
 cctcaatgaa cgggatgaaa ttccacagcc aagaatgtca aattagtatg taaggaacct 360
 aacgcagatt gatatacatt ggaatggttg gatattgata ttagggacct tatangaata 420
 tacaatgact ccttagtaca attcactn 448

<210> 19021
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19021

agcttttatg cttctccagc ctggacaagt gttgtccatg ctacttctgt caactntntt 60
 tgggggtggat atgcttttgg ttttgcaagc aatgtatgat gtgtaaagtg agggaaacct 120
 ttgtatttga taactcttcc cattactgac tgttggagag tgcgttgaag acaaacgtta 180
 tgttttattc gttgtggtaa gcgtgtgcgg cgcattgcaca gtactcttgc atatgtgtca 240
 ctcatggagt gcgctcgtag tgaaaacgtg atatgtgggt gaatggngat acatcgtggg 300
 gcataaaatt agagcaccac ttcaactccc accagttatc aaagagctta tgcctctgt 360
 aaatgaagtg gacgtttaat tcgtgatcac tgtcactttc aatatctatc ttctttct 418

<210> 19022
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 19022

ttcttcatgc cttttctcac atgtcttctg ctaaagtggtg ctaacatgat tctttaaaat 60
 ttccaccaat taaacttgct atagaagcta gatttgattt tctaccgctc aaaattaatg 120
 gtcttgggtct tgaaccatga attatgttga gtttatgttc ctttgagttt tggcttgcta 180
 tttcttgtgg ctgaaaactg aatcataaaa ttcttaacaa aacattaaag tagaagaaaa 240
 tctcaaaaat ctagagtgc ttgtcaccta ttggagtttt ttcatagaag tcttgtctag 300
 tcatgaaact tggcacataa aatttcttat gttgcgcctg aatttattgt tcttgttc 358

<210> 19023

<211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19023

atcttgtcat atgtcccaa gacaaactag tatcacggaa gaagaaaaag atgggagaag 60
 aatgatgcaa agcagtcaga gatgaagtat acaagctcct caaagtcaac ttcacagag 120
 aattcagctt ttccaccagg ctcaccaatg tegtcatggg caaaaaggcc aatggcaaatt 180
 ggggaatgtg caccgactac accgatctga acagggtgtg tccaaggat gcataccctc 240
 tgccaacat caacaagcta gtcaatggag tgtttccaag ttctaagctt cctagacgcc 300
 tactatggat acaactagat ccggatgcat gctcaagacg aggagaaaat gacattcatc 360
 attgaagatg ccaactnttg ctacaaggcc atgccttttg ccttaaaatg gaggcgctac 420
 atactagaga tgggtggtca gatctt 446

<210> 19024
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19024

tgggtgtctta ctttttcggc ttctatttcc cctgaggtt atgcgtcagt gacctggttg 60
 gtctatatac caaacatcca tccactggga ataatccgac ttgagcaaac ctcggttaaca 120
 tcaatggttg gggaggcgag ggtctcctgg ataaacgtcc gatgctgacc tgggtctctta 180
 atgctcgcca ggtaagataa aacatcaact caatcggttct gttccctgtc aacgcggacc 240
 aattctttct gttcaaaatg ctccaagagt tgtttgacca ggtggtagta cttctacatt 300
 tgtgtctctc tagcttgaaa tacctcatta acctgctcaa tgatgatctt ggagtcgctc 360
 tancacctta acttctntat gtcaacctcg atcgtagct tcagtcctac gatgagagct 420
 tcacactct 429

<210> 19025
 <211> 315
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19025

ttctngtctn ctagcttgcc aggcgagctc agctcgccca ggcgagcaag gttgcttcct 60
 ccagaagcaa cagccttctg gaggaatctt ctgaaaggcc caagtgggcc tgggtgctat 120
 ttgcaccccc atttttacta agtacacccc ctacctttnt ttggtgattc ttttttcgta 180
 aagttacgga aacttacgaa tttcgtaacg atactggttt tctttccgta atgttacgga 240
 accttgtaga ttacataatc atcccccttn tgacttacgg aatattacgg aacctcacta 300
 attgtgcaac gatgc 315

<210> 19026
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19026

ttcttgttta acagattntc acttactctc gctcaacgag acatgctcgc tgagcgagcc 60
 ttcgtgtgct gagaagtcca agagccttta aaatactgag attggtggaa aaccaaaggg 120
 caccacgaca accacagcct agccaacccat ctaccacgtg aaaaacagag agaagaaggg 180
 cagagaggct ggagaagaca ttctccttca tctttttcca ttntctttca ccaaaaacat 240
 ttatttcctt gttgtatga agctntgctt gatcacccat ttgtatgttt agttaggctt 300
 tntagtgttg gaaaatgctt tanaacctta gaacttgata gagcaagcta gaaatctatg 360
 tgtctaggat tagaatggca gtaatctagt atatttaaata tgtatgctta gtggaactct 420
 tttagaaatg agttgtga 438

<210> 19027
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19027

gagtgtaatc atgcatataa gcctaaatcc atctaataga atgaaccctt aattgagctt 60
 ttagatcaaa gattaatgaa tgtgttatga gaaagaggat attggttcac ctgatgggta 120
 cgcttgagat tcctcagaca ttctcttaac tgttcagctt ttgcttgtgt attataaaca 180

gactttgact tcttgcaatt gaatcaagta aaaatcatct aaacgtagat aacttggtgct 240
ccacaataac aggggtaaaac gagttacagg aaaaaaaaaat tagttatcat attgacaaat 300
anaacctagg atctatgaat tcagtgtata aataaatcga tcttaatcgt acctttttct 360
tgtcta 366

<210> 19028
<211> 346
<212> DNA
<213> Glycine max

<400> 19028

aatcaaccac agcagaacaa ttatgacctc tccagcaaca gatacaaccc tggatggagg 60
aatcacccta acctcagatg gtccaaccct caacaacaac aacagcagcc tgcttcttcc 120
ttccaaaatg ttgttgcccc aagcagacca tacattcctc caccaatcca acaacaacaa 180
caaccccgaga aacaaccaac agttgaggcc cctccacaac cttccctcga agaacttggtg 240
aggcaaata gaatgcagaa catgcagttt cagcaagaga ccagagcctc cattcagagc 300
ttaaccaatc agatgggaca aatggctacc caattgaatc aacaaa 346

<210> 19029
<211> 116
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19029

gccaaagcccg acacccgccg acacccgctg acgcgaaccc ctttgggccc nnttgaaata 60
acttngtata tggatgctat acgaaggtat tatccatgag cttcgacttt cattcn 116

<210> 19030
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19030

agcttatgct gtaagaagta agatgtgtgc ttgagatgtg tttaaaccctt atctcaacag 60
gaaagcttga tgaagttggg atgatatacc agttcggtgc tggtagatgg aagcttagta 120

gaggaagcat ggtcattgct caaggtaaga aggaaggctc cttgtacatc atgccaggan 180
agatatgcaa atggaagatg aatgttgctc aagatacaac caaagaatta tgacacaaga 240
gattgngtca catgagtgag aaagggttgg agtttctaac anaggatcac tgtccaaaca 300
taaagggcca gccacttgaa tcttgogaag actgtcttgc angtaaaaag tgcaaagtgt 360
ctttccaaag atcggatgag gctagaagga gaaaaaaatc ctagatcttg tccattcaaa 420
tggttgctca atgtctgaaa agtctc 446

<210> 19031
<211> 407
<212> DNA
<213> Glycine max

<400> 19031

tgacttaatg gtggaaggag ataaggaatg aaaagattgt gtgtttaaat cttctgttag 60
taaaaaagggt tgatttatct gccgacaata ttatttaaatt atttttggctc cttcaatttt 120
atgtcacttt tgtttttgggt cctccaactt taaatttatt tgtcttagtc tctcaatatt 180
tctggtcctt caagtttatg tcaacttttg ttattcatta tgcattgcagc cttttatata 240
atgtagcttt ctttacatgc ataaccaacc taactaaca gattaacaaa ctctaacaac 300
caacaactga attaactaac tccacgtaac taatctgcac gtgggttatt atacttggct 360
gcaacgtttt cttcttccta acatttccta acccatcaaa aacacct 407

<210> 19032
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19032

agcttataag atcatatttg cctaaatcat ttccaaatat gcatgtgaat tatgaagcat 60
caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaaag 120
attatgatga tggatggctc atattctcac aaaggtaaac ttatcacttt caaattgagc 180
tttcaaaatt atcatgacat gtagaggaaa aacaaggatt tcaaatcaca aaatgtcaag 240
agacttttat tgtcagaaca atgaccatc tcttgaacat atcctataat tcaaagaaca 300

atatgagagt tgtacatgca aacataattg acctataata ttataactaga aaccaacaaa 360
aactaacaaa tgtaacacaa acgaaactaa canaactagc aaaaccacaa ccatagaaca 420
ctccctgccca tactaaaaca acac 444

<210> 19033
<211> 442
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19033

gcttcttcat ntatagcctt caactntaag tatttgttgt ccctcagcgg atggttcttc 60
actatattct tcattaaagt cttgaagctc ttggagcatt taatgcatgt ctcttcttca 120
tgcaaagtct atgctaatag ctaggttgac atgtcttata cttcaacaag aaagtcactt 180
cttccatcag agcaagtatg caccagcaaa gtgcgtcttt cgatgaagat caacactntc 240
aaactatgga cnttatttat tattcatagg atttaataga ttctaggaga atgttttccg 300
caacaaagaa tctcatatc aaanatttaa atgtaggat taattaaatg cactacttaa 360
tgttatgaca agatcatctt atattgatgt aacatcagaa aactcanacc cagaaataca 420
aaccataatc tgataacaca tc 442

<210> 19034
<211> 431
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19034

attttgttat ccagctcgcc caggcgagct aggttgcttc ctccataagc aaccgccttc 60
tggaagaata ttctggaaga gccagtgagg cctgattgct atttgcaccc tcatttgtac 120
taaattgcagc gctgatgag tgatgggtgac tctatttccg tgacattact aaactttaca 180
aatatcgtaa cgatgcttgt ttccctttacg taatgatccg taatgtaaca atgcattggt 240
cctttacgta atgctacaga atcataccct ttgaccttc ggaatgttac agatctatac 300
agattgtgca ctaacactct cttttaattt ccgacatgtc acgaagactc acggattgtg 360
ctacaatgct ttcttttgac tncgggctg tcacgggact taacgaattg cctaacgatg 420

ggtgtcagta c

431

<210> 19035
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19035

ggcactcaga acgggaacat tgctgttgac caaaaaacga gaacctaata atgggtgctt 60
cccttaacca taacccccaa ttccaaggaa attaatgtga gtttaatttct aatccctttt 120
aagataataa tatcttacac ttctcattta tactgttaat caatcagaaa tatatatgaa 180
aacactttta agtattttat ataacagtaa caaactaata tatgtacata cataactgct 240
actcataatt actatntttt angaaatggt taagcttgta atatctatag tttgtgaatt 300
ttccagcata tttgctatac tataaatgtc aatatgtaac caaatagtgt tgtttngtaa 360
taatgangaa ctgcacagaa ggaaaacaaa aat 393

<210> 19036
<211> 248
<212> DNA
<213> Glycine max

<400> 19036

atgaatttat aggtaagaaa gccgaatcca cattcaggta attcaaaact aacaatgatg 60
atcactaaaa tccaaggta aaggcagaaa accagcatac gcctatgctt ctatcaatga 120
agaaaatagt gttatttagt gaaatcggtc tcgaaacgaa ccggttcatt gaaataaaca 180
acgtaaaaca cacgttacta acaagaggtt ctgatatgtg taaaaatcga gccgaaaaag 240
agactttg 248

<210> 19037
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19037

ttcttctcta atgtgatcaa tacattcatt ggcagattga aggatgaagt tgtggtgcgt 60

tatgctactc agtcaaaggc atacagactg tataaccac taactggcaa gataattgtc 180
 agtacaaatg ttgtatttga tgaagatgca ggctggggtt gggaggaatg tgaaatcagt 240
 caaagtgttc agcagaaatc agtcaatttt gatgggttag aggaggtctc anatgtgcca 300
 cataatgatc acaactccaag ccctccttca atgccatcaa gccagggatc attaactcct 360
 tcaagccagg tatcatctag ctcatcaagt gantttgtct caaggagata caaatctttg 420
 gcagacttgt a 431

<210> 19040
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19040

tattcctgca ttctactaat atatggaatt gccattgtc ttgctttata ataacaattg 60
 ggtgaccaca acagcgctgg gggcggaac ggacaatggt ctttcaaata aacctgttgt 120
 acatgaacaa acattatata atgcgctgac cgtgccaaac gaacaagcga agtcattgca 180
 taattggtac acttactata ttcaatggac ctgaacaaaa tgattttcaa acacgtgacc 240
 gacacatatg atgcggtggc cagaagaatc aagtgggggg tgacttctaa gagggaaaaa 300
 tgtcatgcct tgttgttggg acaacgatac catgattacg ttataccgtg aagcaatcac 360
 atatcccatg tcttgtatat tca 383

<210> 19041
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19041

agcttattct tcagagtaaa cttaccacaa acatcaagtt cttcaaatat ttggatata 60
 gtttccatta cttccttgat gctcacctcg ggctcagata acccttggtc taaaaaattg 120
 agtctcctcc aaaacatatg gattgaatcc agtgggatgc aaccaataac atatttggat 180
 agtcacaag cacaaggaag atcgtgtgtg gttttcatca cacaaccact agtgaagga 240
 ttcttgccag catagtgaac acgctcaaata tcagcagcaa tatgatttan agcatacctt 300
 gaaaccattc caagaagcct cttgtataaa gtttttttga agacatgtcc aacgacatgt 360

gtaccagttt caaaggatgc tctaatttca gtgtgctgca acatcatcat gttgttcatg 420
gcatcccaga cactgcataa gtc 443

<210> 19042
<211> 428
<212> DNA
<213> Glycine max

<400> 19042

tgtgactctt ggcaatttct ttaaattctag tcacttaaaa agttgtgact tttgaaaaaa 60
tcttcagaaa caagtcacat gaagaattgt gacttttgga aatgtatttt tcgaaaccg 120
tcactggtaa tcgattacac ataaacagat gtgactcttc attttgaatt ttgaaaatta 180
aaacatttag aagctctggt aatcgattac aagtgttggt taatcgatta cagaaagttt 240
aaaatacttt aaaactggtt aaacataagt tataactctt gaaatttgaa atctcaacgt 300
tttaaaacac tggtaattga ttactacctt ctggtaatcg attaccagag agtggaaactc 360
tttggtaatg gatttgtgaa aacatcttgt gctactcaat attttgaaaa aacttttttag 420
tacttatc 428

<210> 19043
<211> 293
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19043

ttctttctgat gcnaggctgc cggagcatta taatcgctta taaacaacag acacttgata 60
atgatgacct atgaatacta gatgctttga acaaatgagt aacgaaccta cacgctatca 120
ttcaaatect ttatgtagaa aactctttgt atagtcttat acagtttgaa gagctctcgg 180
aacatcttga atactctaag acaaataact aatgcttag atcacacatg tgtttgtaag 240
atgatgaaga tctaatecag tggcagatca aacagcatat cttttgatgt gat 293

<210> 19044
<211> 396
<212> DNA
<213> Glycine max

<400> 19044

tgaaggctat actatatgta tcctcggatt gttcttgctt tttggaccct acgaagaggc 60
aacaaaagct gctttttcaa acggaaagtc tcctcccgca tgaaaatata ttggaaaact 120
acaaagtttt taaaccttgg tgggaggtaa gacctatata gatgccatta tagttttgat 180
gatacactgc aagggaaatg gacatccatt tattggccta ttcattgccct cacaatgtcc 240
ttacatgatt atgctgaaga ttcttttata taaaatgttc ttgtagagac cccccgtcct 300
tgaataccta aaaaattgcg atctgtccaa cactttaaac ttgagaacct ttttttttca 360
aattatgacg agagatacgt gcccccgat gattaa 396

<210> 19045

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19045

tgcttatatt gatgatgcca aagactcaag tcaagaatca agattgaagc aaatttcaag 60
aatcaaaggg tcattcaatc aagaatcaag attcaagaga agactcaaga tatgtaagaa 120
cctcaagaaa aacatcaaga taagtataaa aagaattttt caaagaaaag attgaatgac 180
acaatttgtc caaaataatt tttcaaagaa aaatctttta ccagagtttt tactctctgg 240
taatcgatta ccatacagta atcgattacc agaagtccaa aacaattnta taactgttnt 300
acaaagtagt aatcgattac catgggcatg taaccgatta ccaatgttnt tgaacgttga 360
atttcanatc tcaagagtca taacttgtga canaatattt tcaaaatagt gtaatcgact 420
a 421

<210> 19046

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19046

tgtaacgttg tctagttttt tttacgttgc ttattaagtt tccagatcta atttgggcat 60
cacgttggct aattttcttt acattgcaaa tttcactgct tgcacaattt ggactatttc 120

ttgggtgggt tgtcaagggtg acctcttata atattgtgtc ccacaggcca atcaatctgc 180
 atttaagcat gatggtggta atgatgtatg ctttgggaga tttcctaaca cgttatagaa 240
 aaaaaagaaa aagtttataa catttattgg tgcacctaat taaattatct tgcttacttg 300
 tactgactag tgactcctct ncattttctta ttcttttatt ctttttgtca attcaacttg 360
 tccttttctt taatagtgat ttttcgt 387

<210> 19047
 <211> 359
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19047

agcttgttgt attggnnttct tcctcttctt ctctggcagt gcaaattgat tggattatgg 60
 aactgttga gagcaatttg gaagccaagt ccaaaattta caaggaccct gctttgagtt 120
 atattttctt gatgaacaat gggaggtaca ttgttcagaa gacaaagata gtgaattggg 180
 aaccctcttt ggagaagaat ggatcagaan acacgctgca aagttaggca attccatgtg 240
 cactatcana gaagctcgtg gaataagcta ttannggatt ctgaagtgga tagtaatggg 300
 tcaatgcccc atattaactt tgcaaagtca atgaaagaga aaactcagtc gttaacaca 359

<210> 19048
 <211> 326
 <212> DNA
 <213> Glycine max
 <400> 19048

acagtacacc tcgtagcact cctgtgctaa cccaacgccc attaccagct ttatagtttt 60
 gcgaagggtca ttgatttttc cccaaggtaa cgcacatcaac acaaagttac tgtcaattac 120
 tactggtttg gaattatctt caaggatttc cttcacaagc ttaaaaagca tgttggtgac 180
 atttgaattg ccctgccgaa gtgccctgat acaagtcatt aattgtggca tgatactagc 240
 attatctgta cgtagcgaat tgacatcaat cactactgaa tgctcatcct ggactccaag 300
 attctgggtat ggcgtgggtat ataaag 326

<210> 19049
 <211> 333

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19049

agcttttttg tatgtgaatc tgatataaaa gcctcaaagt cctctctcac tgtgtatggg 60
gaaattgaga aaagggtagc agaacttgag ttcacaaagt ctggaaagga tctcagagcc 120
cttaaacaga ttcttgaagc aatgcagaga cataagtatt cagtagacat tgctagaggt 180
cacgcttcaa attctccatc taacaatagg aataatacta atctcaacga aagctcanaa 240
atacanagcc cagcagtcag acaaacagac acagcatctg taacggctga gatgtcaaatt 300
tcaccccagg tagtaaattg ccaatgtcat cat 333

<210> 19050
<211> 406
<212> DNA
<213> Glycine max

<400> 19050
agacagaaca gtaattagat catattataa gtgttgattt atcaacttgg ctattgatat 60
atagcatgat tagtagagga caaagcattt catgaattac aatacttttg tgaataccag 120
tatgaatggt ttgagacata tacttgagca accatccata acctcaggtg gtagaagtga 180
tgaatcaaga atagtgaac aatgtaattg agtccacaga atatccttgt aagaaaacaa 240
tgctgtaact cttcaaaaca atgcctactc aagtccaaac tcaactaatg ttctggacat 300
tttggtggca atatatcgat agtcaactga aaaaacaaat atgtaaacad acctttgaaa 360
caagttgcac ttttcatgat tattaacata ttacacaca tttttt 406

<210> 19051
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19051

agcttggttaa ttatctgttt aaaaatcaag aacaagctng tgcgcacatc gttagcgtat 60
atgatatcca ctccacaagg ttccaagtag atgagagctt caaccctata acgcaacgtg 120
gcggacagaa gtgggcaata aacttgaatg gtcgtcattg tcaatgctga aggtattctg 180

cgcttcacta tccatgttca cacattattg cagcttgtgg ttacgtgagc atgaactact 240
 accaatatat agatgttgtt tatacaaacg agcacatctt aaaagcttac tccgcacaat 300
 ggtggcctct tgggaatgaa gcggctattc cttcttctga tgacgcatgg acactgatcc 360
 ctgacccaac 370

<210> 19052
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19052

acttgaatag gatatagtat atattttatg catattttta taatgcgata atttgaaagt 60
 ttttgtttac atgggaaaac ttttagtttc caaatcaaa aaatgcaaaa gtcaaaaaag 120
 ggttatttaa gggaaaatta ataattagaa aaaaaggtct cttaaattta ttctaattat 180
 taaatatccc ctaagtgtga gactagaacc taaataaatg ggtatactta catcaaatat 240
 accctathtt tttataagta aaaataatht ctccattcct ttgtctttta gaactttgaa 300
 accctttcaa ggtgaataaa atttaatatg ctttcttaaa aattattaag gcaaattang 360
 ctttctttct atatctcaga ctttgaaaac actattcttt tagatgtcta ctatgagctt 420
 ataaaataaa cttgatgata a 441

<210> 19053
 <211> 192
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19053

agctnttgca tttacgtgcc gctggagccg gccgcttaag cgcctacgc tgttcgactt 60
 caccgtgacg tgatagaact gaacttgcaa tgcacgcttc cgagtgagac cccatgttat 120
 actaacgtga gcaaggatcg atgcgaatcc aaacttcgac atcgatcatg agtgataagg 180
 atgaatgcat ga 192

<210> 19054
 <211> 289

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19054

 gctcggcccc gggatcgata atgtgactgc atgcatgcaa gcttttaatc aatttcgatt 60
 gtctcaatat attacgggat tcaatcacac atgcgagcag aacgttattg tcgctagaat 120
 tagctcagag catcagaatg cagtgtcgat tgtctagata tattacagga ctcaatgaga 180
 cgtgcgatga aaacatcatc gtctattgaa tcatgtgaga gcttcacaat tcaccttcaa 240
 gcgacgtaat agaatacggg actcgggtgan acatccaagc taaacgtta 289

<210> 19055
 <211> 410
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19055

 ttgttcggta ttgcctaaaa aatttgcaat gtagttttgc taggtttctt cgtgcgagtc 60
 taaccgaagt tgtatttcgg ccgacgcgg cattntgtcg gccaggaaaa cattagccca 120
 cctcggcaaa aaaaaaacat gattcaccgg tattgacaga aaaaaatgct ggccttagtc 180
 ggccaggaaa gatgaccgat cgagggtctaa aaaagaagca tgaccggatt acgcgatcg 240
 aacatttcct aatagatatc ctccaagcat tattcaggga ttgaatggaa aaaacaatag 300
 ccgacatcgg tagttaaata gccgtgactg atattnttca gccaacactg cgcaacttct 360
 ttcacaaacg ctggccgata atattttctt acgggaaagg atgctttcgt 410

<210> 19056
 <211> 266
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19056

 tttctacttg ttccggatca acatcaacag aaacagaacc accactctgt cttgccttag 60
 tcttcttatt tgacttgcgc ttgaccttc cagtcccagt tccttcatct gcatcaattt 120
 cctctatctc aacattacta tagccatctt cctctgtgac ccatccacga cttcgggtat 180

tcttttgcga tgagcccacg tctccatttg cagcaccagt ggggtgtccta aatgaataaa 240
 tnggaactgc agtagatacc ggagct 266

<210> 19057
 <211> 204
 <212> DNA
 <213> Glycine max

<400> 19057

ggggagttaa aaaaaaaat gatcacattc agaaaattaa tatattggag cgggtgtagaa 60
 acaccatgct ggaatcatca aacttcagta tcataaatta acattagagc gagccaatta 120
 aaaccaaagg tgaataatcc aaacttacat ggcactttca taattctaac aactcctaag 180
 aaaacaaaat attctctggc gatg 204

<210> 19058
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19058

cccctctaata actaagctca cctcttgaga agctttcttg aaaagaatcc taaattagct 60
 agagcttagc tacacacacc tctctaataa ctaagctcac cttcttgga tgagaagctt 120
 gaacttagat acacaccccc tataatagct tagctcacc ccatgaaaaa atacattgaa 180
 atacaaaaaa agtccctact acnaagacta ctcagaatgc ctcgcaatac aagggctaaa 240
 ccctatacta ctagaatggc caaatacagg cctaaacgaa gggaaaaaaa cctattcta 299

<210> 19059
 <211> 234
 <212> DNA
 <213> Glycine max

<400> 19059

acttaccgtg tgattatcga aaacgatgta taacgaatga agaacgtcca agaacgggtg 60
 aaatttttgc gaaattcttc acggaaaacg ttaccgaaac gtttcggaag cgccctggct 120
 taaattttct tcacggaaac cattttttcca ggcaaattcc aaagaaagag aagtgcctaa 180
 ggggctgaac ccttttcttc ttcacttctt tccctattta tagcaaaata gggg 234

<210> 19060
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19060

ttctttttct gttggctgan nattatcatg cagacttttc tgatgatgac cgatgaacaa 60
 ttatggatca acttgaaact tatgtgcttc gagtgagaag aaatgcttct tttccactt 120
 gtgaagatgt tcaaagtgtg gctatgaaga tggttcaaac tgagaaacat ttggtatttc 180
 cattggttta taaacttatt gagctagctt ~~tg~~atattgcc ggtgtcgaca gcatccgttg 240
 aaagagcctt ttcagcaatg aagatgatca agtctagatt gcgcaataag atcaacgat 299

<210> 19061
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 19061

gaaatagctc aatagtcatt cactcttatt aaaaaaata aggacttatc ttcattctcc 60
 tctcctgcgc cctttcttct ttctaagaac cgcttctttt tccctttttg gtcggggctt 120
 ctttctccct tcttctccgg agtcagtggg tgttggtccc tttttctccg accgtggctc 180
 ttggtcctgt tttcgcggtg gttcgtgggt ggtactgtgg ggctttcgac cttcctcgtc 240
 gctggctct 249

<210> 19062
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19062

agcttttaca tgaaataatt tacctcactc aaaatgacac cttgcaagca aaaacctaatt 60
 ccttgcaaga gcacgacttc cacaaccaa ctcttgcaa cacacacaaa caaacatcct 120
 tgcagtgagc aaaagttccc caaacaaga aacaagaag aagaagaaga agaagaagaa 180
 gaagaagaag aagagaacaa atactaaggt ccttgcggtt acaagaaga agaagaagaa 240

gttgtaacta ggtaagatgg ttaagtgtca cggtcgcaa gaagttgtac aatgaagctg 300
 aagaagttgt actcacgatc atgaagaaga agaagtgaag aaaaagcga gaacanagt 360
 cgaggaaagt agtagggctc gggttctgat attntaaaat atatgtccaa catcggtttt 420
 caatcaaaaa accgatgtta atccaatg 448

<210> 19063
 <211> 388
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19063

gtgctcttc atgtctggaa tatgaatgta gcatatagat tcaaagactc ttagatgctt 60
 tgctgatggc ttcttcccg tccaagcttc aattggaatc ttgtctctta cagacttaat 120
 tggacatatg ttgagtatgt aaacagcagt gtagacttgt tcaatccaaa atgtgttaag 180
 gaggcccttc tcttgaaca tcatcctaac tatttccata actgtgcgat tctttctctc 240
 ggacactcca ttntggtag gagaatatgc gactataagt tgcgctcta tgccttcac 300
 ctcaaaaat atttcaaact cgcgagaggt gtactctttg ccgcatcac ttcttagtac 360
 tttatctaa tttccacttt gattttca 388

<210> 19064
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19064

atctttgtag gattgatgga gaccgggtgt tgagagaaac gaggatatgg gctacgtggg 60
 agtacgtgag ctcatgtgga ggtgggcaac aggggatggg gggtttatgc gcgatttgtg 120
 gatgtggaaa acttgttgtg cgccatcgcc cgaccgccac ctagtaccac atgtgatggg 180
 taccataa tctacaagc ttgagatgag gaagtgtaga agggtgaaac ttctgcttt 240
 tattcgttga ccacaaagt gtacctggag atatgtcgcg gnggtcagga gacctgggg 300
 acgtcaagt ggggtgtatt gcctaanacc aagcttgacc aatcccgacc caaccggggc 360
 atagtcagtc agtgagaacc tgtgatgtac ctaaacaggc gagcttcttg cagtcaaca 419

<210> 19065
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19065

tatgcgcata tttccttaca aacgttctct tgcacaagac attctattta accgaaaaaa 60
 aatgcaccca tataacaatca aggcagcttc gttacctaaa ttatttacac gtacttccaa 120
 ggtgtatttg gtacttacat cacacacatc ttcttggcta aattcacata catgcatact 180
 caaagcattt tcgggtacca aaaattgcac atgtgcacat cttgggtattt ctaataccta 240
 tacatacaca aacttcatga tgaatcttga ctatctacac aataagggtgc tacatttcat 300
 gctcttttca agtttttgct acctaaagcc gcatgcaa at tcaagtatat tttcctttgc 360
 tgactaaaat tgtattcaaa ttaaaagggga tacattnttt ggtaatgtat cttctttaca 420
 taacatgcaa catat 435

<210> 19066
 <211> 326
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19066

atcttttata aaaatggcct cagcaaactt cttatttcca gaaagaaatt caatcaatag 60
 acctccaatc tttaatggag aagggtacca ctactggaaa acccgaatgc aattttttat 120
 tgaggcaata gacttaaata tttgggaagc catagaaata ggtgtcgcaa cctacccttc 180
 ggcgggaggg cgacgcgaga ctgcgggat gcgtgttcca cgaaaggaat acgcgcggag 240
 tcgccaccaa cgtttatttg aggaaaacgt cgaanaaacc ggaaaagacg cgatctacga 300
 aactttacgt ganagggtcg ggagtt 326

<210> 19067
 <211> 240
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 19067

tcgattaaaa gttatatttt gaagggtcat gactttcgaa tttgaatttt aagaatttca 60
ttgggtgggaa tcgattatac acatctagta atcgattacg ggttcaaatt tccaaattaa 120
aaccctttta aacaactatt tttcaaactt gtcttctggt aatcgattac actgcctggt 180
aattgatacc agagccttac atgtctttga aacacttnnt ttttaggcag gcatgatctt 240

<210> 19068

<211> 292

<212> DNA

<213> Glycine max

<400> 19068

tttcttttag aagaagatac acacatgttt tgccatgcc aatcagcaa ccttgatcat 60
accattacga tctactagca tgcttgagcc ctttatatcc ctgtaggatt ggacacatta 120
gtgtcagata cttggaacta gaaataataa tgtatattat catttgttac atattaacac 180
ctgtgcacgc gatctcttgc atgcatgtag gctatagcat gaagaatctg tctgggtgta 240
catttcgcaa gagatgtctt gaaagggcca tatacctgat gcaaattgcg aa 292

<210> 19069

<211> 282

<212> DNA

<213> Glycine max

<400> 19069

ttatttcttc atcagaagat gggtcgtcta attctttcca tgtgctcatc agaacttatg 60
tggecttttg cttcttcttt ctcttctaatt tcctgcaatg gtttattcct tcttctaact 120
acaccatttt gttatgggtg tctataattg acgagttatg aataattcca ttttcttcat 180
agaatagatg aaagctcttc atttcaaaat cttcaccatg atcacttatg aatgaagtaa 240
tgcttctccc ttttcattct gaattctttt atagaattaa ag 282

<210> 19070

<211> 383

<212> DNA

<213> Glycine max

<400> 19070

agcttgatat ctacatttgt gtgaaaagtt atgagcattt gaatttctca agagcttcca 60
 ttgttcaatt tccagcatct cgatatatta taagcctgaa tcggacattc gtgtgaaaag 120
 ttatgaccat ttgaatatct gaagagggtc cgttggtcaa tttcgagcct ctcgacatat 180
 tatacgctcg aatcgaacat ccgtgtgaaa agttatgacc atctgaatct gcaagagttt 240
 ccgatgggta atttcgagcg tatcgatata ttataagcct gaaacggaca ttcgtataaa 300
 aagttatgac catttgaatt tctcaagagc ttccggtgat caatttcgag cctctctaca 360
 tattatgcgc ccgaatctga cat 383

<210> 19071
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19071

gctgacacgc ggagatntac gtcaactttt gtgctcacia tatttgatcat actgacattt 60
 gagtcacgtt gaccggcgga gataccctag tgggtatccg tataaacatt cttttttgct 120
 gtctgtaaaa cgaaaagcct gatagcatgc agagactaac gtcgtcttct gcgcccttcg 180
 tcaatcgagg ccgacaagcc cgttgacacg cagagattta cgtcattttc cgcgctcaca 240
 agatctgtca tactgacatt tgagtcacgc tgacggacgg aaatacccaa gtggatatcc 300
 gtataaacat tcttttttcc tgtctgtaag acgaaatgcc tgatagcacg cagagactaa 360
 catcgtcttc tggggccttc gtgaatcgtg gccgacaagc ccgttgacac gcggagattt 420
 acgtcatctt ncacgctcac aagatc 446

<210> 19072
 <211> 473
 <212> DNA
 <213> Glycine max
 <400> 19072

ggtgttgact gcatcgacac gcgaaggcga actcggactc cggagatcgt gttgacgtca 60
 actgcacgcg tcgcagcgcg aacttttatg attatcacgg cccaatgaca tgtgtggcta 120
 tagggtagtc tgttgattgc gcacaacatg gtttccgcat acgagatggc gcgaacaccg 180
 agtaataatt attgtattcc gacaactgca tcttcttact cacatatgac gaagatgctc 240

ttttggctaa cgacgggggc cgcacttgcc tttagcttac cctcaccag catagcactt 300
catgccaaca agctagtcca gctctatata gaggtagggt taatctccgg aaacctcttc 360
ccctatcttg tgtcactcct gatcctgcga catcttgcc atctataccg atgttcgttc 420
ggactcctga acttctatct aaccgggttt cacgacgggc acagaacgtc ccg 473

<210> 19073
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19073

agttagatca ttcaactgaa tttgtgcaga ttaggttttg gggattggag tttgcttttc 60
atatgactta tcagttatca tcttgctttt gaagtgattg ttaatccttt aaaggtcatt 120
tgttgagagt gatggaaatt acttgatatt tctcagaaag tataaatgcc tttatcacia 180
actcactcat gaccacaaac acaagtcttt agtttctata atattctaaa ttgctcttca 240
gtttctgcct tctggtaacc tggtttaaaa ttatctaagt tgtcaatctt aataccttcc 300
atggactaca cactgtttgc aaagagctta agacatggaa agtgtcaggg atttttgtga 360
gttataatct caatattgga acaaaatgct nttctgggtt tcaatgttgc taccctattc 420
aagaaatctg attttaatac at 442

<210> 19074
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19074

tattaattat ttgattatta aacccccata cttcagacac tcaatcatca tcccacaata 60
aagttgcaat tntagtctta ggagtgataa aagcaacca aggttaatcg gtctattcaa 120
ggatatgatt tgcaaagtgt tcttaataga aactgggttaa ttcataatctt aacacaagca 180
caaaggaatc tgagcaacta atgccatata agaaatatgc caagcaaatc taccaatttc 240
ataccatgca agaaacacia caaaaacat cacgcaataa gtatgcagtt tacatatacc 300
tgaactgaca taagtataca gttttaagag gcttaatatg caaaataaaa tcaaacctga 360

aaaatatcat taaaaatgat gatcttacca ggaatacacc cataatggat agagtctgct 420
atccgagcac tattaacctg tgatcca 447

<210> 19075
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19075

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ggaagtgcgc ttgtggcaga ggactccata ccagtggcaa cagttggtat tattatgatt 120
ccaagaccaa agcctattgg aaggatctat gagattatc ttaaacttca aaagtgtctc 180
acgctcactt gggatgcaca cactctctct gcatggtaag ctcaacaacc aaagctggac 240
aaagacaaga atataaataa tggaggagga attcatgac acacaagaat atatagaaaa 300
caagtgtagt tgttggttcc gcatataaat catcaaactt ctattattta tactgctgcc 360
ctgcctgtnt ttttcttcac ttccattatt ntnntacctt tttattattg tgccanatac 420
tanaatatcc ttccattc 438

<210> 19076
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19076

tatgagagat ccagtttgg tggagagata agtccttgnt ttgctgattt aaagcatttg 60
aattacttgg acttgagcgc caatgaatac cttggagaag gtatgtcaat tccttctttc 120
cttgggacaa tgacttcctt gactcacctt aacctttttc atactggatt ctgggggaag 180
aatcctcctc aaaatgggaa tctctcaaat ttggtgtatc ttgacctgag ttcaaagtgt 240
gccaacggaa caataccctc tcagatcggg aatctctcta agcttcgata tcttgacttg 300
agcgccaata tatttcttgg agaaggcatg tcaattcctt cttttctcgg gacaatgact 360
tccttgactc acctcgacct ctctgggtact ggattcatgg ggaagattcc atctcagatt 420
tggaatctc 429

<210> 19077
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19077

agctttaacc tcacgtctc tcacagtctt tagatttggg agccaatcca gtccttgtgt 60
 tcggactctc agccacttat gatagccgcc gatgatccca ttactgcttc ccctaagctc 120
 tctgtccttt cttcacgccg catcccatgc cttgcgaact ccttggagta ccctcgcgtt 180
 gtggtcactg aaacctcatg cgatgaaagg cgtgatgctt tcgtctgatg gcactcctct 240
 catgggacat ccttcgcatg aagatagaat cctgattctt ccttccttct agcgagggaa 300
 ccatntaaca gaacgccct catgc 325

<210> 19078
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 19078

tgcctcgaag aggtccagga aggacaaggc agccgaagga tctagtccg ctccggagta 60
 tgatagtcac cgctttatga gtgctgtaca ccaacagcgc ttcgaggcca tcaagggatg 120
 gtcgtttctc cggaacgac gcgtccagct cagggacgac gagtatactg atttccaaga 180
 ggaaataagg cgccggcggg gggcatcact ggttactccc atggccaaat ttgatccaga 240
 aataatcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300
 atcctgggta aggggtcagt ggatcccgtt tgatgc 336

<210> 19079
 <211> 312
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19079

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 gagattaaac atattggcag ggtgcatatt atgatcatgg ctcccattag agtgattcct 120

<400> 19082

ccaaagtcct attaacaact tccgtttgcc catcggtttg tgggtgacaa gtggttgaaa 60
ataacaattt aatgcccaac ttgctccaca aagtcctcca aaaatggctt aggaacttaa 120
agtccttatt actaacaatg ctctttggca aaccatggag tctcacaatc tccttgaaaa 180
acaaatcagc cacatgggaa gcatcatcaa cttttttaca tggaataaaa tgagccattt 240
tagaaaacct atcaacaacc acaaaaatgg aatctctacc attgcttggt tttggcagcc 300
caaaacaaaa 310

<210> 19083

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19083

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agtacgacag tcaccgcttt aggagcgttg tacaccagca ggcgttcgaa gccatcaagg 120
gatggtcggt tctccgggag cgacgcgtcc agtcaggga cgacgagtat actgatttcc 180
aggaggaaat agggcgccgg cgggtgggcac cactggttac tcccatggcc aagtttgatc 240
caganatagt ccttgagttt tacgccaatg cttggccaac agaggagggc gtgcgtgaca 300
tgagatcctg ngttaggggt cagtggatcc cgttcgatgc cgatgctatc agccagct 358

<210> 19084

<211> 387

<212> DNA

<213> Glycine max

<400> 19084

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tggtaccttt tagcttttct ggttcatgcc cagctgtgat gccctatgt agttggcgat 120
gcagtgggaa cttttgtccc taaaccctag ctttctgtct gttacacttc atactaataa 180
aaaagagcta tattttgtgg atctgggtgt ggaaacattt tctcttggtt cattacttgg 240
tggtaaaata ggatttgaac ccaaattcac gcgtccacta tgatctatta attaataгаа 300

cctaggctgc taaactatca attacgagaa tatcataatt taaaaaccaa aaacaaacat 360
 atttaacaca catttaccta acattat 387

<210> 19085
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19085

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 cgatgtcgac catcatgtct cttgtatagg gatatacacag agagctggct agttaagggtg 120
 atcataagtg aagtttcgtt aagtcgatcc tctatagagt gagagattac aatatctgcg 180
 ttatgtcata ctcatcattt agatgtaatg aaacatcact atatgaagcg catgaaaaga 240
 tctcatgagg aattagacac agtatagcga ttgattatac tgagatataa ttacgaggcc 300
 acaattcttg gtgctatata agtgtgatca actacgatac actattaagg tgtgtgtaat 360
 aatctacca ctacaattat gataatgaac gcctgtggga actatatcat aatgtattgt 420
 tatgatctaa atgattagac tctgactcca agcaagtgtt agtctctaaa tcataag 477

<210> 19086
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19086

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 ggctccttca tcaaaagtca ataatacaaa ataaaaaact ttgtaacaac tacttcaatt 120
 ctgtgtatgg accacataac agttatatgc taacattctt ccacttgact catatattac 180
 taatataatc tttattttga caaacaata tgactataac ttgtcaattt aaacttgata 240
 ttgtcactaa aaattaatta cacatgaatc acgacgggta tatttttagat taaacatttt 300
 ctttcatgaa ttacaatatg taaccttttc ttagtgaaat atagggtctt aacattatng 360
 attcaattng aatgctttta tgactaaact aatgtgcaca agtcatagaa tgaaaaaaaa 420
 cat 423

<210> 19087
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19087

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agctttttatc atgtggtatc aaagcacaag agcttcaagt aggtgctcct taaacctoca 60
ttaattttttt gctttacctt ctcttccatt gttgtttctt cattttttct ccatgtatct 120
cctcacatgt cttgtgctaa atgttttttaa catgattctt tagagtttcc accgattaaa 180
cttgctatag aagctagatt tgattntcta tggttcaaat ttcttggtct tgttcttgaa 240
ccgtgaattg tgttgagttt aagttccttt gaattttgtc ttgttattct ttgtggctga 300
aacctaaaac ataaaattct taaaaaata ttaaagtaga agaaaacctc aaaaatctag 360
agtgaattgt tcagctattg tagttntgtc atacaagtca tgtctagtca tgaaacttgt 420
cacataagat ntcttatgtt gtga 444

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<210> 19088
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 19088

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agcaattatg acctctccag caacagatac aatcctggat ggaggaatca ccctaacctc 120
agatggtcca gccctcagca acaacaacag cagcctgctc cttccttcca aaatgctgct 180
ggccaagca gaccatacat tctccacca atccagcaac agcaacaacc ccagaaacag 240
ccaacagttg aggccctcc acaaccttcc ctgaagaac ttgtgaggca aatgactatg 300
cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360
ggacaattgg ctaccaatt gaatcaaaa cagtcccaga attctgacaa gctgccttct 420
caagct 426

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<210> 19089
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19089

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 cgtcagcgtg actcaaaagt cagtatgaca gatcttttga gcacggaaga tgacgtaaat 120
 caccacgtgt caacgggctt gtcagccgcg attaacgaat ggcgcagaag acgacgttag 180
 tctctacgtg ctatcaggct tttcgtctta cagacagcac aaagtttata cggataacca 240
 cttcgggtatt ttgcgccgtc agcgtgactc aaaagtcagt atgacagatc ttgtgagcgc 300
 ggaagatgac gtaaatctcc acgtgtcaac 330

<210> 19090
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 19090
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 cggttgacac gtggagattt acgttatctt ccgcgctcac aagatctgtc atactgactt 120
 ttgagtcacg ctgacgggcg gaaatacccg agtggttata cgtattaact ttttgcattc 180
 tgcaagacga aaagcttgat tacacgcaga gactaacgtc atcttctgcg ccattcatca 240
 atcgcgggcg acaagcccg tgcacgtgg agaattacgt tatcttccgc gtcacaaga 300
 tctgtcatac tg 312

<210> 19091
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 19091
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 ttaatcttag gggaagatta agtgtagtgc caggagtgc ctatagagta ctattgtag 120
 ctagaagtgg catagagaat acttgattgt aatcaaagaa ttaattagtg aaatccttca 180
 aagtttgaag gaaaactgga cgtagcccaa gagttgggat gaaccaatat aaaacttgtg 240
 ttttctttac tgcttctata taactagttc ttttccatat gttactccta cactactcta 300

tccaagtttt gtgaactgat tttctaagca cataatgatt tcaaaccctc tggacgaaac 360
ccaacgtcta ttaatatct 379

<210> 19092
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19092

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ggtaatcgat taccaaaaca ttgtaatcga ttacagcttt ttgaaattaa ttggaaccgt 120
gtaaattcaa tttgaaaaat ttttcaaaac aattttgcta ccggtaatcg attacaacaa 180
tctggtaatc gattaccaga gagtgaaaac tcttttgtaa acatgttttg agaaaaatca 240
tgtggctact caattttgag aaaaactttt catacttatt ttgattaagc cttctcttga 300
ttcttgaatc ttgtgtcttg gatcttgatc ttgattcttg agatcttgaa ccctgaatct 360
tga 363

<210> 19093
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19093

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gtggatggtg tctccctctt cctcttctcc ttgcttcc getgcatctc catggtgtaa 120
aatcaccatt aaaggacctc attgaagctc anagatccag ccttcgtaga agctccacaa 180
gcaagcttcc atcagttgta atcgattaca acatttggtg atcgattaca ctcttcttga 240
ctgtntgtaa tgcattacag tattgtagta atcgattacc agagaacatt ntagcaaaac 300
ttaaatgctg gaagaaaatc tatggtgaaa ggatttgaga gggggtcana atactttata 360
tgtaanaact cttatatgaa aataaatata tat 393

<210> 19094
<211> 437
<212> DNA

<213> Glycine max

<400> 19094

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gctcacctcc ttgagatgag aagctagaac ttaactacac accctttata atagctaagc 120
tcacccccat gacaaaagaa aacatgaaaa tacaaaaaaa agtccttact acaaagacta 180
ctcaaaatgc cccgaaatac aaggctaaaa ccctatacta ctagaatggc caaaatacaa 240
ggcccaaacg aaggaaaaac ctatttctaatt atttacaag ataagcgggc tcatacttag 300
cccattgggct cgaaatctac cctaaggctc atgagaaccc tagggcctac ccttggtatct 360
ttagcccaat ctacttggag tctttctaccc aatgcccttg cgggatagga tggcatcaca 420
aagcatcaaa attcaat 437

<210> 19095

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19095

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cgcagtatca gagaattctt ctgatactgt ctgactctga tcccttgctc atgatgttaa 120
gtgtcaaaat gggacacctc tactttcttt aataacataa ttgcagagaa ttattgtagc 180
atanaatgca tagcttatgt ccttggtgaaa cgcaatgcag agaggcctgg aactatntat 240
tgcttctcac tcagctttca tagtttgggt tgcattgttt cagccaattg gagatnttaa 300
tcatatatct ctggaagcta actgcaagaa agttgactaa tgtattatgc tnttgctgtc 360
aggatatctt gcatgtgctc gctgttcaag 390

<210> 19096

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19096

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ggcctctgat atagctgagc atcgaacttc aattgggaat gaggatcttc tgccatcttt 120
 aattatttgc ccatcaactc tagttgggca ctgggccttt gagatagaaa agtatattga 180
 tgtttctggt atctctagtc ttcaatatgt tggttctgct caagagcgaa tgcttcttcg 240
 ggatcatttt tgcaagcata atgtcatcat aacgtcatat gacgttgtcc gtaaagatat 300
 tgattttcta tgacagctgt tgtggaatca ctgcatctta gatgaagggc atataatcaa 360
 gaatgccaaag tctaaagtta cacttgcttg taaacagttg aaagcccaac accgcttgat 420
 attgagtggg acacctata 439

<210> 19097
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 19097
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 tgtcttgga caccctccaa tggatagaga tcctcatatg cctataacga ggttaacaga 120
 ctagtgcata agaagacttc ccctcaagct ggatccttcg tatatagaga ccatgtacat 180
 tagaactttg ttttagcagc cttagagata ctaagcggtg gtgggtggaa caaccactac 240
 gtatcgtgta tttattagat tctgacctta tgatctacga ttcaactcct c 291

<210> 19098
 <211> 213
 <212> DNA
 <213> Glycine max

<400> 19098
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 cttattttca aaatgttgct ggccaagta taccatacgt ttctcacca atgtagctgc 120
 aacaacagca acagccctaa aaacagtaaa cagtcgaggc ttctccgcaa ccttcccttg 180
 agaactttga ggcaaatgat atgcaaaaca tgc 213

<210> 19099
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19099

agcttttcgta tataatataa gacaatacat agcaacaata tgtcgggtatt ggacaagttt 60
aaaagcaaca tctaaacaga ataacttcta atttcaaaaa tagctatttc taacttttca 120
gggtgtaagt gaatcgaata aactcattca aaaacctgaa gttatctcca ctttcataaa 180
tacatatgtc atcaagtagc aggtaatccc tacaaaagcc aaatatttgg tagtaggctt 240
caaaaaaagt gttgaatccc ggcccatgtt aagcttcata caagagaact gaaagtcttt 300
gttgataatt atttggtagc agtgatgggt ttcaattcta ttctctgact ntgacaagct 360
gctctcattt gaccagattc tacagaagat agatgaatat atttaccaga catat 415

<210> 19100
<211> 398
<212> DNA
<213> Glycine max

<400> 19100
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atatcttttg gtgtcaccct gatgcaatga agttagtcaa tgcattgtaatt ttgggtgtttt 120
tgataaacag tacctacaaa acaaacaggt acagactctc actgcttgat tttgttgggg 180
tgacaccaac tgggatgaca ttctttgccg gttttgcata tctggaaggt gaacgtctta 240
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ctcgagttaa tgctactgac aaagacctaa cattgatgaa tgtagtgaat attgtatttc 360
ctgagtgtac aaatttggtg tgcaactttc acacaaac 398

<210> 19101
<211> 528
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19101

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gacctgatgc gtgcaagctt gtatattcac acattcacac acacacacac acgcgcacac 120
acacacacac acacacacac acacataaac ccttactcta ttttctttcg taaaataatt 180

aattccaacg acattcataa tacttcatag gaataaaaga agtgaagtaa atttttgtga 240
aaataaaaac tttgtatata aacttctgaa actcgttctc ctttatgaag catacataat 300
tttctagggt gtatacacat ggtgtactaa aaaacaaata agttctagaa taaataaacc 360
atacattctc aggtgataaa tatggataaa caagtctatc tocatgggtca ccacatatag 420
ataaataagt ttcataagta ataatagata gcaagatgta agtgtctcaa tggaaagatt 480
aagtagcata tacgatccca taatatcgag tatagagatg tagagtag 528

<210> 19102
<211> 436
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19102

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tggatcaaat ggagaataga gatcataatg aagaagaaag gaggaggaga gggaatgatg 120
gtgttcctag acaaaaccga attgatggta ttaaactcaa cattcctccc tttaaaggaa 180
agaatgatcc agaggcctac ttggagtggg agatgaaaat aaaccatgtt ttctcatgca 240
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ttgtgtggtg gaacaagtta cataatgaga gagcaagaaa tgaagagcca atggttgata 360
catgtgcaga gatgataagg atcatgatga agcggtatgt gccggctagt tacttaaggg 420
atttgaaatt caagct 436

<210> 19103
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19103

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tagagttgat cttggaatgc cattgagagc tctttgggaa gaaacatttt atgctctaca 180
aacatacgtc tgggtatgag atatggacat aaagtggatg gcatagccga ctaccgcata 240

tatcgttgta ctctgctgcg cactcgattc gagacggagt gctgtaatcg ctccctctgct 300
 gtgcattaaa tgacaatgca catgctgcag ccattcgaca ccctggcagc gatacttgcc 360
 tatgtgttgg aacactatca aggtgtatgt ccatggggaa gcccccttc ctgaggatgg 420
 g 421

<210> 19104
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 19104

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 cgcggtgtt gaagagacgg catgggcac tctttcttt ctttttgccc ctgttgcccc 120
 gattcttttg gcattcgct ttgtggagga aacgtaatca aacttttctc ttttcaatcc 180
 aacctcgatt ctttccccgg caaacaccag atccgcaaag ctggacggca tgtaaccac 240
 tagcttctca tagtagaaca ctggcagagt gtctaccatc atggtgatca tctctctctc 300
 accatgggag gagctacttg ttgccgcaa tcccttcac gctgcgcata ttctttaa 359

<210> 19105
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 19105

ggacactttt agcacttcct tacatgaata caataatcat tcttcatcac gagcaaaaaa 60
 tatccagccc ttaaaatctt tcaggccatg gcatgccc atggcatagg gccaaaggaa 120
 ctttcatgca ctttcttag tatttgetca acttcaacta catccacgca ccggagtaac 180
 accatatcat gggttctttt gtatagcacg tccccattca aaaaaaagt aactgccaac 240
 ctccgtagtg tcttctgtc attctcaaag gcctcatata ggtactccct atctttgata 300
 tatctcttga ta 312

<210> 19106
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19106

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ggtgtgtgta gctaagctct agcttctcaa ggaagtttct tcaaagaagc ttctcaagga 120
agttttctca agaaagcttc tcaaggaagc tacctagtct ataaatagaa gcatgtgtaa 180
cacttggtgt aactttgatg aatgagagtc ttgtgagaca tacttcaaag ttccacttct 240
ctacctcttt tattccttca attntgtgct cccccctctc tctttctctc cctctntctt 300
ttcctccatt gaagcatcct ctccaagctt cttatccaag gctcatcttg gtggtgaagc 360
tccttcttcc atggcttatt ccctagtggg tggcgctctc tctcacctct tctcctttgt 420
cttccgctgc atctccatg 439

<210> 19107
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19107

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tgatcccacc aaatcaaagt gtcaaaaatc aacaacttga gcaagtctta ctttcttccg 120
ataagtctct tgacatcaaa gatggtcctt tctgggttga cagctgcctg attcttggca 180
gccttcccaa tgagtctctc actgtcgggtg aaagcaaccc acgatggggt gatacggtta 240
ccttggtcgt tggctatgat ttcaacatgg ccattcttgt aaacaccgac acatgaatag 300
gttgttccaa gatcaatgcc gatgaccgtc cctaacttgg tggcttcctt cttagcaatg 360
gaaatcgcaa atagacatcc tatggagaaa tttctcaatg ttagttacat agttaaat 420
ttacaacact t 431

<210> 19108
<211> 302
<212> DNA
<213> Glycine max

<400> 19108

agcttgtatg tatatcaa ataggccttta acgaatatca gaattggacc taccaacatc 60

tattatctta ttacactct tactgaaaag aatatccata tcgcactttc tgctatactt 120
gcttatatgt ctattaatga aatctataca gcatttatta acatatgcaa gtttcaagtt 180
ctctttagag agtccaatat gttgcttttg cgagtgcctt actgagtctg atataaact 240
caattgataa caaatcatgt attagttggt aaaacaaaca ctaacattat attatacaaa 300
tt 302

<210> 19109
<211> 311
<212> DNA
<213> Glycine max

<400> 19109

agtaggatta tggggtaccc atcacattgt ggactatgtg gcggtcgtgc tatggtgcac 60
aacaaggggt ccacattcac aaagcgcgca taaaccacc atccccctgt gccacctac 120
aactgagctc acgtactccc acgtagccca tatgctcgtt tctctcaaca ccgggtcccc 180
atcaatcctt ccaagctttc acaatatcca aacaaaacaa cattctaaca gcacaaacta 240
ccacagccaa gaaaacagag ctaaggccga atacagcttt ctcaattata gaccaagaa 300
caattgcttc g 311

<210> 19110
<211> 244
<212> DNA
<213> Glycine max

<400> 19110

atctgttacc atatcgtctc tcacagactt tagatttgtg agccaatcca gacctggtgt 60
tcggactctc agccacttac gatagccgcc tatgagccca tgactgcggc ccctgagctc 120
tctgaccttt ctgcacgccg cataccatgc cttgcgaact ccttgacagta ccctagcggt 180
gtggtcacta aaacctcgtg cgatgaaagg cgtgatgctt tctgctaatt gcgctcctct 240
catg 244

<210> 19111
<211> 410
<212> DNA
<213> Glycine max

<400> 19111

gacacttcga aactcaagct tctatagaag tccattccta attgtctaca atagcatttt 60

ctctcaatga tctggagaca aagaacgtgg cattgacctg tggtgaaaaa caataagcag 120

cctttgcttt gctcaaagaa aagcttacta aggcaacctat tctagctttt gctgactttt 180

ctaaaacctt tgagctagaa tgtgatgcct ctggagtggg agttggagct gtattggtac 240

aaggtggaca ccctattgct tatgttagag aaaaacttta tagtgccacc ctacactacc 300

ccacctatga taaagagctt tatgccttaa taagagctct acaaacttgg gaacatttac 360

cttgttccaa ggaatttgct attcataatg atcatcaatc acttagtaca 410

<210> 19112

<211> 250

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19112

ttgcatcttt ttctggaggc actnttgaaa caatatttct ttagatccaa tccccaccta 60

caggtaaaaa aaaagtcaca tgttaactga aaatacacat tttgccggct attaaatgga 120

ctacaagaat agatctacaa aaaaaaaggt aaatatgcta acggctatac tgagtaaccc 180

accaaaaaca acatgaaata ggttgcagcc atgaccaaaa atcaataaaa ctggataaac 240

tcatatcaca 250

<210> 19113

<211> 357

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19113

ggatctttta ggtttttatc tttaatcttt tatccctgaa cgaactattc aaagttgtaa 60

ttcgaacttt aattatcttt taattcgctc ctaaagatag atcgccaaat ctgttgctaa 120

ctgcacatta atctgttaaa gatataacag atttatgtgt ccagtatttt cgggcaagat 180

gttctggaca tcgtatccga catcgtggat cctgcagctt caattcttca ttngacattt 240

tatcttgctt tgtgcattgt gcagcccaat ctgattcctt gacataaccg tggacatcat 300

gtgcagcaac tccagctttt cttcattggc taagtgccta tgttttaaca aaattta 357

<210> 19114
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19114

agctttttcc anaactttgt ttatcctgca caaagcaatc ttgtttggat catgtctaca 60
 gctttgaact tattcccttt tcatgatccc catgttaggt tattaactgt gcttctagac 120
 aggcattgtg aaagaatttc tcggagaatg gtatgtctga ctatgctaca gtttcttaat 180
 tagagggaca ttcttttagca tcaatggatg aaaaactaat tgttgatact ttgtgcagtg 240
 caaccttcca tatgttacta tggtagtgac tgacaatcta caggttattc tcaactcagt 300
 tctattcaat cgctcagtgt ctaacatagt tcgataggac atgttgactn tgtagccata 360
 ttgcagtttc tgcgttataa aattgttntt gggctctaac ttagttgtta gtgtttaaaa 420
 tttatttttg caatta 436

<210> 19115
 <211> 311
 <212> DNA
 <213> Glycine max
 <400> 19115

tcttatccaa agcaattctt ggtgttgaag ctcttcttt cttggcttat tccctaattg 60
 atggtgcctc cctctcctc ttctccttg ccttccgccg catctccatg gtgtaaaatc 120
 accattgaaa gacctcattg aagctcaaaa atccagcctt catggaagct ccacaagcaa 180
 gcttccatca agtggtaatc aaagcacaag agcttcaagt aggtgctcct taaacctccc 240
 attaatggtt tgctttaccc tttcttgcat tggtggttct tcatttttct ccatgtatct 300
 cctcacatgt c 311

<210> 19116
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 19116

agcttgtag ttgtaaattn tgtaagactt aattcacccc cccccccctc ttaagttatt 60

gaagccactt gtccaacaaa gggggatgga tccaagggtg tgttcaaagt atgtaaagga 120

attacaaaga taatggaaaa tctcaagtgg attgtttgag gactggacgt atgcatggga 180

agtggccgaa ccagtataaa tcgagtgtga aattctctct tcccttattt atntatttta 240

ttgcaatcaa ttgtgtcttg cacgtttaaa gaacattatt aaatcgattg atgcttcttc 300

ttcttcattc taagtctatc atttaaaaga aggttaacag cttgttagtg agaaattatg 360

tgagacttaa ttcaccctcc ctcttaagtt attgagacca cttgt 405

<210> 19117

<211> 126

<212> DNA

<213> Glycine max

<400> 19117

gagagacatt tgggagacgc tgcttaccct gccttcagcc ttagactttc tgggcctgaa 60

cgatgttatt ggacaaaggg atgaactccg atacttttct tatatgggac atgatatatg 120

ctaaaa 126

<210> 19118

<211> 222

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19118

agctnttcgt cttacagaca gcaaaaagtt tatacggata accactcggg tatttcgcc 60

cgtcagcgtg actcaaaagt caatatgaca gatcttgtga gcgcggaaga tgacgtaa 120

ctccgcgtgt caacgggctt gtcggccgcg attgatgaat ggcgagaag acgacgttag 180

tctctgcgtg ctatcaggct tttcgtctta cagccacaaa aa 222

<210> 19119

<211> 442

<212> DNA

<213> Glycine max

<400> 19119

acacgtggag atttacgtca tcttccgcgc tcacattatc tggcatattg tcttttgagt 60
cacgctgacg ggcggaaata cccgagtggt tatccgtata aactttttgc tgtctgtaag 120
acgtaaagcc ttataacacg cagagactaa cgtcgtcttc tacgaccttc gtcaatcgcg 180
gccgacaagc ccatttaaaa gcggagattt acgtcatctt tcgtgctcac aagatctgtc 240
atactgactt ttgagtcacg ctgacggggc gaaataccgc agtggttata cgtataaact 300
ttttgcattc tgtaagatga aaagcgtgat agcacgcaga gactaacgtc gtcttctgcg 360
cccttcgtca atcgcgatcg acaagcccg tggcacgcgc agaattacgt catcttccgc 420
gctcacaaga tctgtcatatc tg 442

<210> 19120
<211> 324
<212> DNA
<213> Glycine max

<400> 19120

agcttttact ttaatataag tcctttattc taaggttcat aacacaaatt aaagtgcaaa 60
gttgggatta ctactttgga ttgcaataag acatgatcaa gaggaagtca tacaagcaga 120
gagcataatg tgagcatagt gcaaataaat gcaagatgca aaggatgata gtgagaccat 180
gtttgtaaat gcacgacaga ctactgccta aagcaattaa gccttatttt tggtagtttt 240
gactgcctcg cttagcgcaa gtcactcgct tagcgagcac tcaaggactt ttaagttttc 300
agaatacaca ctcacgagct cagc 324

<210> 19121
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19121

ttatcactgg cattgcactt cctgttggtt ccgacaaact ttattctggc atcactgatg 60
ggacagttag gatatgggac tgccatactg gtcaatgtgc taaagtcata aatcttggtg 120
ctgaaggtag ctctttgatc agtgaggggt catggatttt tggttggtctg caaaatgctg 180
tcaaggtaag ctcttatctg gcattgggtt gggttgatgt atgataatgt ctaatcataa 240

gagtagtaca tgcaaactga ttatgtggct gtgggttggtg tgaaagcttg gaatatccag 300
 accatgtcag aagttactct cgatggaccc aaaggccgaa tccctgccat gacttgtggc 360
 aacaatacac tctnttctgg cgcagaggta actaaccatg ttattaatat tgcgcaatga 420
 tattccccta accg 434

<210> 19122
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 19122

agcttggttg ttacagtgc aacaattggg ctggagatga agatgattgg aaaagtacca 60
 gtggatttgt gtttttcata ggaaacacaa ccttcacttg gatgtcaaaa aagtagccga 120
 tattcactct tttgactcgt gaggcagaat acgtagcagc tacttcatgt gtttgtcatg 180
 caatctagca taagaattta ttaaaagagt tgggcatgtc acaagaagag ttgaccaaga 240
 tctttgtgga taataagtta gtcattgctc tagcaaggaa tccagtgttc tatgatcgaa 300
 gcaagcatat tgataccctc taccactaca taagggagtg catagcaaga aaggatgtac 360
 atgcagaata tgtgaagtct caagaccaag aagctgacat cttcaccaag ctgctcaagc 420
 a 421

<210> 19123
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19123

ttgacagaaa tccgacatcg taacattgta aagttacatg gtttttggtc acattttcaa 60
 tactcatttt tgggtgtgtga gtttctggag atgggagcag tcaagaagat tttgaaggat 120
 gatgaacaag caattgcggt tgattggaat aaaagggtgg atgttggtta aggtgtaaca 180
 aatgctttat gctatatgca tcatgattgc tcacctcaa togttcatcg tgatatatca 240
 agcaagaatg ttcttttgga ttccgattat gtagctcatg tctcagactt cggaacagcc 300
 aagtttctta atccagattc atccaattgg acctcctttg caggaacctt tggatatgct 360
 gctccagggt aatttccttt ctctatacta tttgagtaaa tcatgatatt ntagtttgct 420

ttcgttagcc atttacaaat atatat

446

<210> 19124
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19124

agctcttcct tantattcaa gtgtatggac catatcgtag ccaaagtgtc catcgataat 60
ggttccagtt taaacgtgat gcctaagagc actttggaga aattaccatt caatgcttcc 120
cacctaaagc cgagttcaat ggtgggttcgt gccttcgacg gcacccgccc agagggttatg 180
ggagagatcg atctcccagt acagataggc cctcacacct gtcaagttac cttccagata 240
atggatatta acccccccta cagctgtctg ttggggcgtc cgtggatcca ctcagtgaga 300
gttggttcct ctacactcca ccataatgtg aaattcttag tggaagggca tctggtcatt 360

<210> 19125
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19125

tctaagaata gccttgataa ctntaacata atccattgat tcttcccca aaaatatagt 60
gtcatcagca aattgaagga tattcactgc aaccttggtc ttccccacca taaagttgtg 120
gaagcagtggt ttggatattg cttccttcat cattcctgtc aaacgttcaa caaccaagtc 180
aaacaataaa ggggccaaag gatccccttg tctcaaacct ctttgaggct taaattcagt 240
agttgggctt tcattaacta cgatagatat agaggctgat gtgaggcacc ccttgacca 300
actaatccac ctgtcatgaa acccattct tctcatcata taaaaaagga atttccaaga 360
cacatagtca tangctnttt cgaaatccac tttaaacc accaagacc tctttgacct 420
cctaagcccc tcaacaacct cat 443

<210> 19126
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19126

ctttttttcc tcatatnaga acatacctag ctaccatatg tcggaattgg accagtttaa 60
cagccacatc taaaccggat gacttctaata ttcgaaaata actatttcta acttttccag 120
gggntaatga actccaataa cctcattcaa aaccctgaac tatctccact ttcattcaata 180
catatgtcat caagcagcaa gtaatcccta caaaagccat atattgggta gtacgctaca 240
taaataagtgt cgaatccagg cccatgttca gttcataca agagaactga gagtctctgt 300
cgataattac ttggtagcac cgatgggtctc aattcttttc tctgactatg acacgctgct 360
ctcatttgac cacactctac agaagataga tgaatatatt gaccacacat ataangaat 420
ngntggaata gaannagcaa cat 443

<210> 19127
<211> 176
<212> DNA
<213> Glycine max

<400> 19127
taatccatgc atggaatttg gtgtttttga taaaccgttc ctacaaaaca tacaggttcc 60
gactctcact gggtgatttt gttgggggtga tccctactgg gatgaacttc ttttgccgat 120
atgcatatct ggtaggtgaa catcttaata atgtggtgtg ggatttagaa cgcttt 176

<210> 19128
<211> 331
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19128

agcttgata ctcttgaaca gaggactntt caagtccttg ttagattgag ggatgaacga 60
gatgaggcca aagaggtatc ttttataaag aaactagtta ttcatttcag tttacacaaa 120
aaaattaact attttttctt gttcaaagca taattntgta ttttttttct taagttatac 180
tgagttccta aattatgttt atatgtaagg cccttgaaga agtactttct caaaattctt 240
caaagcagta tgactcatac tttgctaata cacgtgaatc tgttntccag gtaataatgt 300
aatatactta aaagaacccat gtcacccctt c 331

<210> 19129
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19129

tgcatacaata aagaggctctt attgggttcaa atntatgttg atgatataat ctttggatct 60
 actaatgaat ctttgtgcaa ggaggttttct attgacatgc caaatgagtt tgagatgtcc 120
 atgatgggtg agttaaaacta cttttcttata ttacaaatca aaaccaacaaa tgatgggatc 180
 tttgtcaacc cagcaaaaata ttacaaggaa ctcatcatga aattcggaat gaagaactca 240
 aaacacttgg ctactcctat gagcactggg tgctaccttt gacaagatga atccgggtcaa 300
 ttcgttgatg aaaagcaata tagaggatg attggatctc tactttactt atatg 355

<210> 19130
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19130

atcttatttaa actttaaaaca gagttaatta ttctcaaacc aaaatgaatt ctagcagatt 60
 gttctggagg acctanggat aattctaaca gattgttctt ctgggttttaa ctgtgaggtc 120
 aatgttctcc catacataat atttagaggc tataagatgt taaattttat tggaccaatt 180
 gaaaaattct tggcatgctt ggtagggat aatttttagca tattgttctg gttttaagtg 240
 tgagggtcaaa gttccctata gcatattcta acatatcttt gatatcattg gctttgtcta 300
 tcaatacctt aagttgttgc gtgaagatac tccaccagaa tgggatatta aggaaattca 360
 aaatattgga aacatggatt tc 382

<210> 19131
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19131

tgaagcttaa ggataagctt gaagatgttt tgactttttac antgcctaac tcccttgagt 60
ggcatttgga ttggttttta tcttggtatgt cgcactcttaa tacatatgat atttgtattg 120
catcattcat tatcatgggt aggggtgaaga aaagtcttctt caagaaacaa aagctcttag 180
ttttaattga ttacaagtcc attgtaatca attacaacat gttgtttgaa gcttgaagag 240
ttaagtcttg tatcggttta atcgattaca gttgtctcat aattgattac tctgttcttt 300
gagacaatga ccaatttatt caggagtctc tgctttaatc aattgccaaag tggattaatc 360
aattacttct ctctcattta ggttggttaga agtgaanaat aacactttta tcgattactt 420
agagcatcta at 432

<210> 19132
<211> 388
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19132

atcttgtgaa gtatggtggc cacattgatt tggatgatgat gatctatctt tgtttgaggt 60
gtcaaagggc ataaaaaagt ttgtgggttag tctaaaagaa tatacatggt cttgtagaaa 120
gtgagagtta actggaattc cttgccctca ttcaatagca tgcataatggt tgaatggtgt 180
ccaacatgaa gctaattgtca attcttatta taggtgttgt tatgtgttta ttgttatatt 240
gtagtttttg gattctatgt ggtaactatt ntttaattta aattggttgg attgcattta 300
caagaaatct acttcttgca acatattcat tattgggtttc atgtattgac caacttatgg 360
ctctaacaac actatcttac ttccttgg 388

<210> 19133
<211> 424
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19133

tccatcaagt ggtatcagag cacatgatct tcaagtaggt gtctccttaa tccctcatta 60
attntcagct ttaccttctc cattgatgtt tcttcatttt tttctccat gtattttctc 120
atatgtcttt tggatgaatgt tgtaacatg attctttaaa atttccatca attaaacttg 180

ctatagaagc tagatttgat tttctatggt tcaaaattct tgttcttggt cttggttcttg 240
aaccatgaat tgtgttgagt ttaggttcct ttgagttttg tcttgatatt tttgtggccg 300
aaacctaaac cataaaattc ttactaaaac atcaaagtag atgaaaacct caaaaatcta 360
gagtgatatg ttcacttcat tgagttttgc ataaaagtca tgctagtcac gaaacttgca 420
cata 424

<210> 19134
<211> 337
<212> DNA
<213> Glycine max
<400> 19134

tttctttggt cgtggtactt acccgttgaa gatcgaagaa cgatgaagaa catcgaagaa 60
cggttgaaac ctttgcgaaa ttcttcacgg aaaacggtac ggaaacgttt cggaagcgcc 120
tcggcttaga ttttcttcac ggaaacgatt tttccaagca aattcgaaag agagaggagt 180
gcaaaagggg ctgaaccctt ttcttcttcc ctctctcccc tatttatagc aaaatatggg 240
aggtggttgc cgccagctc gccagggcga gctcagctcg ccagggcgag ccaggttgct 300
tcctccagaa gcaacagcct tctggaggaa tattctg 337

<210> 19135
<211> 378
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19135

tgctcanag agatccaaga aggatttttt ctctgaaaga accagttccg ctctgaata 60
tgacaacat cgtttttagga gtgctgagca ccagcagcgc ttcgaggcca ttaaaggatg 120
gtcatttctc ccggagcgcac gcgtccatat cagggacgcac gaatataccg acttccagga 180
ggagatagtt cgcccgcggt gggcatcgct gggtaccccc atggccaaat tcgaccaga 240
cataatcctt gagttttatg ccaatgcttg gcctacagtg gaggggtgat gagatatgcc 300
atcctgtgtg aggggggtag tggattccat tcgatgcgga tgctctcagc cagttcttgg 360
gatatccctt agtgctgg 378

<210> 19136
 <211> 92
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19136

gatatacaac tccactangc tttccattct atacctcata ttcactggga ttaaattgagc 60
 agatttggtg agtcgatcta ctatgaccca ca 92

<210> 19137
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19137

tgagaatgga gaattgtact aagcaatcac ttcgcatagc tccaaactcg aaggtggagg 60
 acacatgaac gaaaacacaa ttcattggggc ttcgaaaaag ggggttgagaa tggagaatta 120
 cactaagcaa tctactacgca tagctccaaa ctcgaagggtg gaggacacat gaacgataac 180
 gcaattcatg gggctccgaa aagattgaga atggaaaatt gcactacgca atcactacgc 240
 atagcttcaa acgcgaatgt ggaagacaca tgaatgaaaa cccaattcat ggggctccca 300
 anagattgag aatggagaat tgcactaagc aatcactacg cata 344

<210> 19138
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19138

ttgcatcttt cntgtgtagc ttctatggag gttggatctt tgagcttcaa tgaggtcctt 60
 taatggtcgt tttccaccat ggagatgcag ctaatgacaa aggagaagag gtgagaggag 120
 ggcgccatcca ctatggaata agcctgcaag aaagagcttc accaccaaga tgagccttgg 180
 ataagaagct cggagaggat gcttcaatgg agaaaaagaa agagggagag aaagagagag 240
 gtgggagcac gaaattgaag gaagaaaaat aagggagaga agttgaactt tgagttgtgt 300
 ctcaacaagac tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga 360

ct 362

<210> 19139
 <211> 313
 <212> DNA
 <213> Glycine max

<400> 19139

tgggaggatt gatgtgtatc tcggtgtgat agaaaccagt atatgggctt cgtgggagta 60
 cgtgaacctc acttgagggtg ggcaacaggg gatggggggc ttatgcgcgc tttgtggatg 120
 tggaaaactt ggtgtgcacc aatcgccgac cgccacctag taccacatgt gatggatacc 180
 ccataatcct acaagcctga gatgaggaag tgtagaaggg tgaacttcct gctttttattc 240
 gttgaccaca gagtgggtacc tggagatatg tcgcgggggt caagagacct tgggggacgtc 300
 aggcgggggtg cta 313

<210> 19140
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19140

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 tggaggaatc ttctggaggg cccaagtggg cctggttgct atttgcaccc ccatttttac 120
 taaatacacc ccttgccctt ttttggtgat tcttntttc gttaaagttac gaaaatttac 180
 gaatttcgta atgatacttg ttttctttcc ataattgttac ggaaccttgc ggattacata 240
 atcatccctt ttttgactta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300
 ccttttgact tccggtgtgt cacagaacct tacnggatgt gcatcaatac tttcttttga 360
 tttccgcacg tcacggaact tcacanatng cctaattgatg ggtgccaagc acctcanaat 420
 gaccaaacac 430

<210> 19141
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 19141
tctattatct taagttagag gtgttcgtca aaatgaanat tgtttagcca aagaataaaa 60
caaagaacaa aaaccacatg gaaagaaagc aaaagaaaaa aaacaagaaa aagagagaga 120
gagagagaga aagaatcaat ccatccaaga tggaagaaga gagaaggaaa atagaaaaga 180
aaaacaagtt ctttggaacca gacaatgtct aaaaaatgtg cagaattgtc ggaaagaaaa 240
aaataaaaga gaagagcaat agttatcaca tgcttttagtt acaaaccaaa tctttgtgtc 300
tgccctcctg ttccacacca aacaaaagag aaagggaaac agaaagagaa aaggccgaaa 360
caaccaaagc caaatcttct accaaaatcc aaccttataa agacctattg atccatgatg 420
attatgcata ttatctttga tttgatggga aatg 454

<210> 19142
<211> 367
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19142

agcttcttcc ttctttcgtg ctctgntcct tccttatttc tggaggtgct agacctcgaa 60
ttctagcctt gatacattgc tctaacattt tgttttttta atttttatgt tgatttgcta 120
acagattcga tatttagatt tttatgttga tttgccatgg atntgggttc tcttggtctc 180
cttgattntg gatttgtaac tctaaatct gagtaaatgt taagttgttt ttgttgctta 240
aatatgagat ttgagttntt tttttttttt tttttgtgtt tctagtgtgc tttntatgtt 300
gtatntatgc ttttggttgg gatgaacaaa gaggggacgg cgggttggtg gtgtaaaaga 360
tgagag 367

<210> 19143
<211> 434
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19143

tgtctacatt cattagtaag tgcctagata agcaggtcgg tgaacagatg ttactagaag 60
tgaacaaact ttctttctct ccttggtgcta tgaacctatc attctttgga caaaacttat 120

caaacttaaa tagttgatcc tttcttattt ataagaacat attgggtttt ttttctttca 180
aaattaacat ggaagaatcc ttggttggaa tcataattgg ttaggggaac cattcgtgtt 240
gaagggagaa tgggcgtaat ttaaattaac ttaacccatg tataacttgt ggtctttttt 300
gcttatgttt cccctcccat tnttaactta gttatcttgg taaaaacata gttttgcaa 360
aggggtttctc aaaatcatat acagattatt caacccttct tctaattgtgt ttctttgttt 420
ttcaagagaa aaca 434

<210> 19144
<211> 428
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19144

agcttttgta tgccctagtc attcatccct atgagaagtt gtcgaagtat tggcaatcag 60
aattgccatt cctttgatta taggggtgaa ccaagctcat gcttttacia aaagggttcat 120
caagtcaagt tgaaatatgg aagtaaccgt cctgcaaaaat tggggcaaaa gatgaattga 180
gtcacatcac tgcttcgtct actgccaaac atatttagga ttgtagatgt ccttggttact 240
tccagtttca ccttgacaaa gatgtcatgg accatgttga aaatctaaat tgattcaacc 300
ccatattctg cgtaaaaatt cccaatactt cgactgtaca tcattcgcac gcattccatgc 360
ttttcattgg ttgcattgct cattgcattc tttccttgan aaataaaata aaatanaatg 420
aacttatc 428

<210> 19145
<211> 428
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19145

tatgcgcata cttcttcacg aacgttcact tgcacaagac tttcttataa ctaagaaaaa 60
tgcaccata tacaatcaag gcaccttcgt tacctaaatt ctttacatgt acttccaagg 120
ggattttggg acctacatca cacacatttc ctttgctaaa ttcacatata tgcatactct 180
aaacactttg gctatcaaaa attgcatacg tgcacatctt ggtatttcta atacctatac 240

atacacaaac ttcatgatga atcttgacta tcgacacaat aaggtgctac atttcatgct 300
 ctccctttttt tcaagtattt ttactaccta aagccgcatg caaattcaag tatattntct 360
 tttgctcact aaaattgtat tcaaattaaa aggtattttt gtaatgtatt ttctgcaaca 420
 tatttata 428

<210> 19146
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 19146

agcttttact atcctattca aatgttaaca tgactgttac cctaaaataa aatcaccaaa 60
 caaaagattg ccaaaagtat ctcccaccaa ccccgagat caaatctcat actccctccg 120
 tttcaaaata catgtccatt tttgaaaaat tgcggttaacc aaggacaggc taatttgaca 180
 caaaagttcc tatttttacc ttgtccttta ttttctccat tttatattta tttatccac 240
 ctcataatta ctccaatac caaaattaat taaagttaat caaattacaa taccaataca 300
 tactggcaat accaatacta ctaaattggca ttatgtttgc ttcggtattg aaaagctcaa 360
 tgggcatagt tcggttatca aaagttttta aaactcaatt gaaaaaactt ccctccatta 420
 ttacatatac tctaatac 437

<210> 19147
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 19147

tctttggcct aacaggaact ccaatatttt tacagcttct aatggatatga atggtttggc 60
 cacaccttcc acatgtaaac tcaaccaatt tcctctttta cttatgtcct gtgacattgt 120
 cctcatctac agatcttctt ctatttttct ttggccttcc tctttggacc tttttatgtg 180
 gtggaacaag gtgtgtatac tgtgtctggg cccaatattg aggtccttgg actggttcaa 240
 taaaatgctg gtatgtctta ttataagctt ctattgacag ccaactcatga cacatgtcct 300
 caagcttccc tcctttgtga gttattgttg caatggcatg tcggcatggc atccctacat 360
 caaagttgta aaatcagcac acatgtag 388

<210> 19148
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19148

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agctttttat tatgaaactg ccatgccatt cgcattccca aaactggact tgtttgcagc 60
acaagctcaa gtgcaacggc agattccttt gccttttctc caacaacaga aaggaggtat 120
ctactgtttg gttttccttc tccttgcatt tgggaatggg ctctatgcta aactttccac 180
aacacttgct cttgctcaat tctctttact gcacttttta gcatttcgtg gcactatttg 240
tccaatcatg gtttttacat tccttctcta acttttttta taatggotta tcaattggag 300
aggaaagcaa acatggataa ccatgcattt cctcttgttt gggtgaagag aaattgaaag 360
aaaagggaga caaaatttgt cttctagaaa caaatttatt ntttcctttc attctcttat 420
caattcaa 428
```

<210> 19149
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19149

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tatgaccaa acaaaaataa gaanaataaa atgctacaat gttttacagc acaaggattt 60
gaaagggtaa ccaccaagaa tccccaatgg actgtgattt caatattatt ttttgagaaa 120
aatatgtata attaatTTTT aaaattttaa tattataata agtttatatt taagcgaaag 180
taataagtat aattataaaa ttaatttgag gaaattgaga tttgaaaaaa aaaattaatt 240
taaaaatctg atacaaaatt ataaatcatt aattatttga tagttntaat aaatatataa 300
ttaataaaca tttataaata attaatgatt ttgaaagttt aataaatata tataaacata 360
agtgctaaac aatcataaag ccatgtatca caactcaaaa agaaaatgag tataataaaa 420
tatgtcttta tattaaaaaa caaataata 449
```

<210> 19150
 <211> 509
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19150

acgcacccat atgatgaatc tatcganagc cacggcgaat tcgagctcgn ggccctgtga 60

tactntagag ccgacctcga ggcacgcgat ttcnatatgt atatctatag aagcctgagg 120

aactagcttc agtttctacc acacaattaa tttaacaacc ctatgggcca agggtttcac 180

ttttcaacct cataaagact cgggtctttta tcttttctcc cactagaaag aagtaaacct 240

ataaatggaa ataagcgctt gggtttctaata tctttccaaa acctttaaaa ttttggaatg 300

atgtctgaga caaaaccatn tcagtattta aagggcagcg taaattgtgc atgccaatat 360

cagtctcctt acatccaagg tcttacgaac aacatacatg ctgtataaag ctatgggccc 420

ctgctgctca cgggctgttg catacataac agcgaggaag agggcccacaa acgatggacg 480

ccaatagcac cacaagatgt gaccgcgcn 509

<210> 19151

<211> 482

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19151

cgcagctgcc tttgatgcgt tgattgccac nttgaaaacc ggaccacaga atctcagctg 60

accagcttga tcggaaatca tttttggcta gttttataag cntcggggat gttgcccgtg 120

atgggtatttt ccctggagcc agcacttgcc ctatagcatg gaatctcttc cagaagccgc 180

ttggtgttcc taaaaaagct tcctatatca ctctgtgagt taatttggtg ccggccagac 240

aaatattttt ttcatataat gtgccatttt aatagttctc tacttagttt ctgcaggttt 300

acacgtgaac aaggtgatga caactatagc tgtggcttta ccaactccata tgaaccctgc 360

cttctggaga gatgtgtaca taaaatcaac caccgccatg cctcctgtgc ctacacaatg 420

gaaggattat gaagaattgt gcctcccatt ttgatggaca ctgtcatcat tcacgatatt 480

cn 482

<210> 19152

<211> 410

<212> DNA

<213> Glycine max

<400> 19152

atcttgtggt tgtatatgaa atcctttgcg tcgagatcga tggatatatag cacaggtatt 60
cagcttcttc tcctaccag aaagggttaag ttatatgtc tactttcaca ccctccctgc 120
tctaactctt tgactccatc tttgtctata tggatgttac ttagagcagt atgttttcat 180
ttgogtgtgt ctatatatat gtgtaatgtt cagtgtcag tatgatattg tagatgttac 240
tgtacctcaa tgtgattctt agatatcata taatctttgt agtttgtagc atcttctgtt 300
aatattatct ctgcatttct tacttatatt tggattgtct tcttcttct aaacttacat 360
ctggtcttat gtgctaata ggtgaagtta catgacacag acattaacac 410

<210> 19153

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19153

ntaaacctct cacaaaagg aagactttta tagaagatgt atctccaatt tcttagaggt 60
gagttcaaat ccttacatat aaaagagtca gaatccattt tccattattt ttttaagattt 120
cttggttggtt cacatcaaat aaaaagaaat ggtgagaagt tagaagatgt tagaattatg 180
gagaaagata ctacgccgt tagatcccaa atttgagcat attattgtga caatcaagga 240
aaccctagat ttaaaaacca tgatgataga acaacttcaa ggatcattgc aagcttatga 300
agagaagcat aagaagaagc aacagatcac taagccactc ttcaagatgc aactgatgga 360
gaaggaagaa agtcaacgaa atga 384

<210> 19154

<211> 340

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19154

ttcttttatg agtaagtngc gaacggtgaa acttcctgct tttattgttg accacagagt 60
ggtagctgta gatatgtcgt ggggggtcacg agaccttggg gacgtcaggt ggggtgctat 120

tgcccaaac caagcttgac caatcccgac ccaacccggg catagtcggt cagtgagaac 180
ctgtgatgta cctaaacagg cgagctcctg gcagtcaaca gataatagga acaaagacca 240
caaagcaatg aggcttgtgg tggctggcca tctgtgaatt ttgtgtaata tgtggattat 300
ggcctctggt aatctgatac ctaggggtggg taatcgatta 340

<210> 19155
<211> 389
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19155

ggctctaaat ttacattgat gcattttttt attggaagat gttgcaagcc attggggcgt 60
taagaatagc attccttggg aaaactaatt ctccaaatgt ttgccttcgc aagaaatggc 120
cccgaggaag cctgcctcaa agatggccag gaaggacata gcggccgaag gaactagtcc 180
cgctcctgag tattacagtc accactttag gagcgctgta caccaagagc gcttcgaggc 240
catcaangga tggctgtttc ttggggagcg acgcgttcaa ctcaaggagc acgagtatac 300
ttgatttcca agaggaaata tggccccggc cgtggacatc actgggttact cccattggcc 360
atttcgatcc acaaattagc cttgatttt 389

<210> 19156
<211> 404
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19156

agctattggn tttaatnct agagncnnga natatnacgg gacttattcg aacattcgag 60
ttaaaagtta ttggcgctg catttgctca gagctttcgt tttcaatgac gagtgtctcg 120
atatgttacg ggagtgatcc gagttaaaag ttattgtcgt ttgaattttc tacgagcttt 180
tgttttcaat tttaaagtgc ttgatatac acgggactca atcggacatc cgagttaaaa 240
tttattgtcg tttgcatttg ctgagagctt atatactcaa tttcaagcgt ctcgatatac 300
taagggattc aatcgaaaat ccaagttcat agttattgtc gtttgaatat gctacgagct 360
ttcgttttan attatgagcg tctcgatata ttacgggact caat 404

<210> 19157
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 19157

ctcagcttga gcaagcaaca cataactttta ctcgatgtct atcatccgta tattcagaca 60
 ctagaaatga aacgaactcg tacaattcaa atgacatact tttaactcga gtggattgag 120
 tctcgaatat atcagacctc gtattgaaaa tggagctcgt acaatgcaac gatataactt 180
 ttactcgatg tacgattagt ccgtatatat tgagacctca aattgatata aagcttgagc 240
 aatgcaacca cataactttac tcgatatcga tgatccgaat aatcagagct cgaatgatac 300
 gaactttaca a 311

<210> 19158
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19158

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 cttgacttgc attcaaagaa cttcttgaac aactcttaag aaaccttgaa acctttacaa 120
 cctttacaat tctttaagaa ttcattccca atcatctttc ttcttcttcc ttgccaataa 180
 agctttctaa gttttttggt ttccaaacct tattcttctg caagtgaaaa ttctgcagaa 240
 aacaaaagtg tgctatatct tttcattctc ttcttccttt gccaaaaaga attcaacaag 300
 gactaatcgc ctgaattctn tntgtgtctc tcttctccct ttttccaaaa gtatagaggg 360
 accaaccgcc tgaattcttt tgtgtctcct ttctcccc 398

<210> 19159
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19159

tcttatccaa ggcacattnt tgggtggtgaa gctccttctt tcatggctta ttccctagtg 60

gatggtgcct cccctctcct attctccttt gccgtctact gcctctccat ggtggaaaat 120
caccattgaa ggacctcatt gatgctcaaa gatccagcct ccatagaagc tccacaagaa 180
agcttccatc atacagtttt ttttaatacc atatatacag agacattatg tgtatgtact 240
gaaatagtgt gtgtatggtg tttactttga ccacttccat tcttaccag tgctccccc 300
aaatttgga caaatntgct ttgaaccacg ctctctgtgg atgatgctct cttacaacct 360
aagtcaaggt agcaggagat aatatngtat aggcctcatgg ttcaatcaat ctattcattc 420

<210> 19160
<211> 375
<212> DNA
<213> Glycine max

<400> 19160

tctatccttg cttcatcttc ataactcatt cttctcattt gatcaccaag tttaatcctc 60
tctaccatga gcctagcggg ttttgagat ggtggagtag catctcaact tgcagaagcc 120
atacctgcaa gttaaagctag cacacaagta ataaacaaaa taggacctca ccactcaact 180
tagtgattca ctcaagttca ctctgtatc actctttcaa ggctttctat tttataatat 240
gcgctcttgc attgtaccac tcttgctctt cttcagttct taagcaaaac cttcaaactc 300
agaataaaga agtattcaat gtgaaatatg tcacaaatca gaactcaact caagaagcca 360
agaatagaaa tactc 375

<210> 19161
<211> 354
<212> DNA
<213> Glycine max

<400> 19161

tgaaatacaa taaaattatt aaaaaaaatc ttttattaga tccatcttta agagtattat 60
aatatgtaaa atatttaatg aattacgtta actttttttg gataacttta ttatatagta 120
taaaatattt aataaattac gttaacttct ctttcacact gcaaaacttc ggaaaaagta 180
ttccacgaac aaaaaaatat taactgacaa gcgttggttg ttcaacccaa ttcaagtgtg 240
tatttcacgt gaattgtcat gcaatggctc gttgagttgt tatgaataga tcaaaacaat 300
tataattgga agttaaaatg gtcaattcca catcttggtg atgtgatcct taat 354

<210> 19162
 <211> 308
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19162

 agcttatact tctatTTTTA gcgtctcgag cagttacggg actcaatcag acatccgagt 60
 taaaagctat tgcggtttga atttgcacag aggttcaaca ttcaatgtcg agcgtctcga 120
 tatgttacgg ggctcactct gactttcaag taaaaagcta atgtcgtttg aatgtttctca 180
 gagattctac attcaattac gagcgtctcg atatgtgacg ggactcaatc agacatccga 240
 gaaaaacgtc actgccgntc gaattagctc ataagttcaa cattcaatgt ctacggtctc 300
 gatataatt 308

<210> 19163
 <211> 416
 <212> DNA
 <213> Glycine max

 <400> 19163

 cccattgtg atctgactac agcaatcgac cgacccggat cttaagtcac tgccgcagct 60
 tctttataca cctcgcagca ctgagtgact atcacgtagc catgacctca tagggacata 120
 agagcacaga cagctgtagc attcttctgg acaagacctc aggttttctc ctgatatcgc 180
 cgacacgttc ataactagca ctaaaccta tgggggaagg aaaaatagat ctaatcttga 240
 cacaattaac agacattaat tgacccgtag attgcactat catagcaaat atgcctacta 300
 ccgagactgg cttgtgagga ccccaatgc gatcatggct ttcaattata cagtactgaa 360
 actggcccct gggggaaatg ctgacatata ctgataacca tttttcgaaa gtcac 416

<210> 19164
 <211> 441
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19164

 agcnnttntt aagaagtaat cnnnnnnnca tacatgtggn ttagtgtatt taacatctta 60

naaatgctgc aaaaaagcat cttanaaata tgaaaattat aaaatacttt ttaagaagaa 120
 aaaaaatcta aaatacathtt taactctcac tctcacaata ctgttaatgt ttatacaagc 180
 tttathttttt catccaggcg gttcagtgta tttaacatct taaaaatatt aaatathtttc 240
 ttcatttttaa agggaaaaaaa atgttggaat tgaatttaac tctcaaaatg ctactathtt 300
 aacttanagg attaactagt gagataagat tctgtttgca tttacatata tntagtaaga 360
 gaatntgtgt ttaattctta cttgtgcan annatattta tgacagagac aactgagagn 420
 taaanatagg taagttgaac t 441

<210> 19165
 <211> 470
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19165

ctattcggac ctatgatact cagcttgtag gtagttctct tgattgacct atttgatatt 60
 tcattttactt gntathttcac attttggtag gtttaaatat taataatggg acagtgtgtc 120
 cgtcaaattt aagaatgaaa ttggttattc aatatagaaa aaaaaagcat gggataatga 180
 aggtaatggg acatgaaatt tttcataact catttcattt tatccatttt catacaagat 240
 taaatttgaa ctattaaatt aagttagcaa tataaactta ttttattaag tcataaaaata 300
 tatatatcaa aataagaaaa aagataagac tttacttact tttcagttaa attaaaattt 360
 gaattaataa gaathtttttt cttctaata gaattgaaggat taaaataaat aaaaataata 420
 attatctata ttggtatctt gaacacgcgt acccttatat aatgtgtcta 470

<210> 19166
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19166

agcttttgat tattcattat tgattcaaag aathttttat gataacaaag gtgatgacaa 60
 aaagctcaaa ggtcaagaac acttcatgat aacaaagatg atgctctcaa gaatcaaaga 120
 atgagttcaa gattgaatca agaacacttc aaggttcaag aggaaatttg atttcaagaa 180

tcaagaatca agtttcaaga ttcaagttcc gagaatcaag atcaagattc aagactcaag 240
attcaagaat caagagaaga cttaatacaag ataagtatga aaaagtgttt tcaaaaactg 300
agtagcacat ggattgttct canaacttgt ttaccacaga agttntaatc tctggtaatc 360
gattaccaga ttgttgtagt cgattaccag tagc 394

<210> 19167
<211> 107
<212> DNA
<213> Glycine max

<400> 19167

gcttgctcta aattacattg gtgttggatt tatgggagga tttatatgcc attttttctt 60
taagaataat ggcccactgg taaaactaac tttccaaatg tttgcct 107

<210> 19168
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19168

agcttgttca atcaccatag ccatgggtca atgattgatt ggtaaaattc tatttttctt 60
ttttccccag tttttcaaaa agcaaaaaga gttgaacaga ccaatgaata agaattcata 120
tattcagaaa attccctctc cttaagata aaagacgagg atgcactttt ggtttccggt 180
tgggggcctc acttgttctt tntctctacc cttcaccac cattttctct tccatgccca 240
aaatgcatgt cctctttctt tntttgttnt tccattntca tttcgttgaa accctttcta 300
ccctaattctt agagtacaat gccctgctct ctccgttcag ccattaccga ctgctcacca 360
cccattcttt ctctgttgaa caccttcac ccttactact cctagctcgg tgtcatctat 420
gacaatc 427

<210> 19169
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19169

ntggagtaaa aggcttacta aagaaggcaa taggggtggcc tttctgcat aagactgcac 60
ccatgtcgac accaaacacg tttgtttcca aggaaaaagg gataatgaag tccggcaaga 120
gtaaagtagg ggctatagaa agcacatcct tcaatccagt gaaaacttgt tgcgcccttag 180
atgaccactc aaaggggtac ttcataagta acctgggttaa ataagctgca atggaggcat 240
agccacgaat aaatcgggtga tagaaacccg agaggcccaa aaaactgtgc aaggccttgg 300
aggaatgagg tgtgggtcac tgctaaatgg ctnggacctt agccgacact ggttcaactc 360
cttgtgcaaa aaccaggtga cccaagaact caacttggtg ctgggcaaag gtgcacttgg 420
atagt 425

<210> 19170
<211> 275
<212> DNA
<213> Glycine max

<400> 19170

atctttttat tggcatttgg aatgcttttc taccacttca tgccacatca accatttaac 60
acaattggcc acataaattg gattccaaag gtttttgctg tgtgaatagt acctagacgc 120
ttaaacacaa accttctttt attcaagaaa acataaacccg tttcatgact catttcaacc 180
attaatgggt taaatgaata attaatttct agcaacaatc aacagttttc agagatgaat 240
agctgacaac ccgtactctt caactattag tatgc 275

<210> 19171
<211> 276
<212> DNA
<213> Glycine max

<400> 19171

aatttgatca tcttgctttg atgaataaaa agcttgggga aaatggagag aattagaagg 60
agggaggaac ccatgttgtg attgccattc ctacatggcc aaatttctca acagctcaac 120
aatgtcaata cttaaccaat atcaaccctt cttattaccc accaccctat cagccaaaaa 180
cacctaata tccacaaagg ccaccctaa atcagccaca aagcccggct accacacatc 240
tgatagtaga caccaccctt aacatgaacc aaaaca 276

<210> 19172

<211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19172

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agcttgtttc aagatctaca acaggaactt gaaatgaaag attcaatgag agtgaaggag 60
ttacataatg aaaattatga ttcacagggg acttgtgatc attccttctg tgataaggag 120
ctaaatggat tntcacctga aaagcacaca gataactctc caataactga ctacaaaaaa 180
tcatatgatc aaaaggaaga agaaagatca gaatctatga gcaaaattga agctgagctt 240
gaagctgaac ttgagagatt gggattaaac atgaacgaat ctagcccaga aagaccgctg 300
tctgagcttg ttgaggtaag cataaaatgt ntatcttttg catttcctag taatgacatg 360
atcctgtaag canatttcat tgtcttggaa tatggctgct gaaatatact ntctttanat 420
aatntcttat at 432
```

<210> 19173
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19173

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ctggactcta gctagagaag ctntaanaac ctttattttc atagttatat atatatatat 60
atatatatat atatatatat atatatatat atatatatat atatatatat atattttata 120
tgagaggggg gaaaatatat tatattaaat cctaattctt tatatatgaa tctatgggct 180
agatataatt ttctcatctt atataagata ttttctcgta taagatatgt acttatatat 240
gcacatatctc tttattttat tgagagggtta tttttaaaatt aatgagtttt tttttttaa 300
aaaaatctct ataaaaacta ttgggaaaca aattaacata atttcgtttg cttttgtgtc 360
gcgttgatgt caattctcct tttataatta tctattctac tatgacgggt cgacacgacat 420
aatttcaatc ttaag 435
```

<210> 19174
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19174

```

ttctttgctg gtttttggag gctcagcgcg gatctggagc ttaacgcaca tttggcggt 60
tagcacacga tcacttatgg cagcaaaact ttgcatgtcg cttagcgcg agtghtaagct 120
tagcgtacaa tcaatatcga aaaacataac tgtgctgtgg agaaaaaagg gagaaaccaa 180
aagaaagctt ttttgaacc aaataaggag atagggcacg agagaagatg gagaaccac 240
tcaattgggg accatttcct ccattttctt ccacacctct tgtttccttt ttgtattatt 300
aatnttctca tgacaatgag aggttaaacc attcactgtt ggaagctcaa caaccaaaaca 360
ctctngatat aatgatncta actatctatn taatgatatt ttgatattat ggggtctntt 420
ctatgctaaa tatcatg 437

```

<210> 19175
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19175

```

aaaacacaat tttgcgagat gtgttacaat tnttagtggt cttgatttcg agattaagta 60
tatcaaggac acttcaaact ctctacttga ctatcttacc cgtgaattct tacagaaaaa 120
ttgccatgcc acctaaggca tctagcacct ctttatgagg aggaagaagt tcaagtaaag 180
atttcaaatt gactctacca gagccattct ccaaaaagaa ttcaccctca aaatctgggt 240
caccaacca agttgggtta ttaactcaga aaccaaaaca agaagggtca tctatccaac 300
tagtttcaat taaacctaaag tcatccactt aggaatttcc taaaaatcaa acattaaaac 360
ataccaaggt cgactatgcc tttctaataag aaacacta 398

```

<210> 19176
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19176

```

tgcttttctc ttagagatcc aggaaggata aagcggtga aggaaccagt tccgctctcg 60
aatatgacag ccaccgtttt aggagcgctg agcaccaaca gtgcttcgag gccatcaagg 120

```

gatggttatt tctccgggag caacgcgtcc agctcaagga cgacgagtgt atcgacttcc 180
 aggaggagat agttcgccga tagtgggcat cactagttac ccccatggcc aagtntgacc 240
 cagacatagt cctcgaattt tatgccaatg cttggcctac taaggagggc gtgcgagata 300
 tgcgactctg ngtgangagt cagtggatcc cgtttgtgca gatgctctca gtcagctcct 360
 gggatatacct ct 372

<210> 19177
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19177

tgctgcctca tgaagaatgc cttgctctta gatagcatga ttttagccct tttataatat 60
 ggatgtatgg aaatatgtag catgaaatgc cttgcaaaat gttgaatgaa atgccttgcc 120
 aaatgttgaa taaaatgcct tgcaaaatgg tgaataaaat gccttgccaa atatgaatat 180
 atatagcatg aaaatgcctt gcataatatg aatatatata gcatgaagtg cttacaaag 240
 tggttgaatg ggtagcgtan aagtgttttt aaaatatgtc atttatgata ggtggaaaag 300
 aacctttcaa aaaatgtgtg tatatatata ggatgtagca tgaaaagggt tgtcaacaaa 360
 atatatgtgt acatggatgt ct 382

<210> 19178
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19178

agctttgatt nttatgtcaa caaaaatagc gattnttatc acaataggtg tgttttgttt 60
 gtagttcttt caaagcttaa ttttttgggt taattgtttg ggtgttcttg atccttctcc 120
 tactttgttt cgcatagaag cccgaagaac aactaaagc tttgattttt atctcaagaa 180
 aagcagcgat ttttatcaca acaagtgcgt tttctttgta gttctttcaa agcttaattn 240
 ttttggttaa ttgtttgggt gttcctgac cttctcctac attgtttcgc atagaagccc 300
 anagaacact anagctttga ttnttatctc aagaaaaagc agcgatttta tcacaacagg 360

tgcgttntct tttgagttct t 381

<210> 19179
<211> 368
<212> DNA
<213> Glycine max

<400> 19179

tgtaatcgat tacacacata ctgtaatcga ttaccagatg tttttttcag aaaacattct 60
caacagtcac atctttttat ctgattctta agtggccatc aaaggcttat atatatgtga 120
ctagagacac gaattgaaca agagttttga agaacaaaaa ggtcttatcc tcttaacaag 180
caaaattggg ttatcctctt acaaattcct tggccaaaac actcgtgatt caataaggaa 240
ttatttgagt gctcaaattg ttcaatctat ctctttctag agagatttct tcttctcttc 300
ttctttattc tgaaaaggga ttaagagacc gagggctctt tgttggtgaaa ggattctaaa 360
cacaaatg 368

<210> 19180
<211> 306
<212> DNA
<213> Glycine max

<400> 19180

tttttgtaaa actttttgaa taaaatgtag cagaagttaa caataattct taaaaaaaaat 60
gtgtggctag cacttggtat ttagtatcc aagctaacct tcatatcgta cttaaattcca 120
ttaacggcgt tattgtctta catgccttta ttgtgacaaa ctattagact aataataata 180
ttttaaaaca tacttaaatg aattaataat ataaaaatat tctaataatt gtgacaaaat 240
aaatagattg agagaattag agatactatg gaaatatttt acattgctac cactatttta 300
catata 306

<210> 19181
<211> 299
<212> DNA
<213> Glycine max

<400> 19181

gcacgagaaa acttcaatcc acccaagaag gtgttaaaaa accagagttc attccattat 60

cctagtttaa gagaatctta ccatgagaac caaatctaaa ctctgaagaa gccaaacaag 120
ataaaatcta tgtctacata cactgatggc taaaccattc caaactaaat ggcaacttta 180
gcttaagatg gctcataata gttaaagctt ggagaaaaag ataacaatga tgggagggac 240
agtatggtgc ttatgatattt acttttcact gctctatgat acataacca ctgttgagc 299

<210> 19182
<211> 377
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19182

tagcttcttc aaagacttgn ggtccaacat aggcatcatt tcaagcctaa tcaacgaggt 60
aacaccccct tgggtgggtcc taacaattgg tgggggtctc aatttttttg ggtatttcat 120
aatttggtct gcagtggtcca gaaaaattgc taagcccca gtttggaaca tgtgcttgta 180
catcttcatt ggagccaatt ctactgttc caccaacact ggagtcattg tcaccagtgt 240
aaagaacttc cctggcacaa ggagcattgt aattggcctc ttgagtgggt atcttggtct 300
gagtgcagct atcatcactc agatatacta tgccttctat ggaaatgatt ccaagnttct 360
aattntgctc atggcat 377

<210> 19183
<211> 375
<212> DNA
<213> Glycine max
<400> 19183

tctcgaggaa gcctcttaat gaagcttctc tatgaagaat tatgaagctg ccttggtaaa 60
aatgcttccc cacctttggt aaccggtggc tcttctcaaa atttggtctg gcgcttcaca 120
gaacacttgg ccatgatctg accggtggga tctttaagaa aatgtctgga atgtgtgcca 180
tgttttcgct tccgaaagca ttgctcactt gtgcggtttg agccttgtag tctaagtacc 240
tttggaaaaa tgccatttct ttccctttct ttcttccaaa accattttca acattccaag 300
atctttctcc atcaccaca gccaccatta gccaccacaa actgtccgtg ttcttcattg 360
aaaccccaca ccgag 375

<210> 19184
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19184

agcttgtagc ctcacgttgc gcgtgtatga tatccactcc acacgatntg aagtagagga 60
 gagcttcaac cctataacgc aacgtggcgg acaaaagtgg gcagtaaact tgaatggcgg 120
 tcattgtcaa tgcggaaagt attctgcgct tcactatcca tgttcacaca ttattgcagc 180
 ttgtgggttac gtgagcatga accaatatat agatgttggt tatacaaacy agcacatctt 240
 aaaagcttac tccgcacaat ggtggcctct tgggaatgaa gcggctattc ctccttctga 300
 tgacgcatgg acacttatcc ctgacccaac tacagttcgt gcgaaaggtc ggccaaaatc 360
 aacaaggata agaaatgaga tgg 383

<210> 19185
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19185

gagcgtaga tgatattgtc ttcaccgacg aaaggatcaa agtgagtcta aaaagagaca 60
 aatctgagca tcatactttg ataaatgcc aagaaactat ggcaagtga gaggatgaga 120
 aggagggaga aacctatgtt gtgactgcc ttcttatacg accaagtttc ccaccaaccc 180
 aacaatgtca ttactcaacc aataacaacc cttctcatta cccaccaccc actcatccac 240
 aaaggccatc cctaaaatca accacaaagc ctacctaccg cacttccaat gacgaacacc 300
 acctttagca taaacaaaa caccaccaa gacatgaatn ttgcagtga aaagcctgga 360
 gaattcaccc ccaaattccag 380

<210> 19186
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 19186

acctacgatac tttaatggag aggggttacca ctactggaat acccgaatgc aaatctttat 60
cgaggcaata gatctaaata tctgggaagc cattgaaata cggccttata taccacaccac 120
agtataaaga gtttcaatag atggtagttc atcaagtgaag agcataacca tagataaacc 180
tagagataga tgggtctgaac aggatagaat acgagtacaa tacaacctaa aagcctaaaa 240
cataataaca tctgccctaa gaatggatga atatttcaga gtttcagatt gtaagagtgc 300
taaagaaatg tgggacactc ttcgattaac acatcatagg aactacaga 349

<210> 19187
<211> 403
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19187

agcttgtctc tgtggaagaa ctatggtgat ggtgttcaaa ggcaaggtag gacaggacgc 60
aattttcctg ctgcaaggtc accaacgcc a gtgacatctg agaagcttgg aaatataggg 120
actgtaaagc agcttaaaaag ttcaagactg ggacttgaga agagtgaag gttaaaatac 180
ttgtattgct taagtttgac natttgttta ggctcacata tgnnagctaa tgttggtgat 240
tccatgtagc agggcaggtc gtccaccaac caggaaaactt tctgacgta aagcatatgc 300
acgccagaaa cattcagcaa ttagtgcac agcagatttt cttggtacta atttctgctt 360
ctagaaaaga gtaatgatct caagttctca tgtgtataat aca 403

<210> 19188
<211> 479
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19188

tanagataaa ttaagaataa taatagaata ttccatctta tattctgatt atatattcta 60
tcaaatacaa attgattagt tagactaaga ataccgatag actatcttat cattgataat 120
atattctatc aaatacaaac tgattagtta ggctaacaac actgatagaa tatcttatca 180
tatattctat cagttattac ttattagatt gtacatatta attcttttat ttaaaaatat 240
cattgtcaaa gtaggataaa tatttaatta tatacaattn gttttattaa ttattaataa 300

ccttctactt tatcctaata atttatactt aacagatgag tatttntctc attataaacta 360
 tgtactatcc aatgtcttat tagattttta ataacatatt atccatttaa tttacagatg 420
 actgtaattt gatcaatcat tagtatatat atttatacta tcgaccgatt aagttaaag 479

<210> 19189
 <211> 399
 <212> DNA
 <213> Glycine max
 <400> 19189

agcttctctt gtaccttatg caaatcctca actcatcctt caagatcaaa ctgtctacta 60
 gtgattgggc cctttcctct ctccggagct taagctcgct gttactgctc cacagagccc 120
 ctcggaattt gttccggcca tgtttttccc tacggggcct tttgggtctct tgttacaaag 180
 ccttggtggt ggcaatattt acgtctcaga gttcggcatt ctcttttcgg atcttaagag 240
 ctgctgattt gaacttggtt ttgactgttt ggactttctc gagttctgcc ttgagggcctt 300
 gcacctcttc gtcctcgctc ggagcttcaa ctccacccc cttagtggtt ctcaaactcg 360
 ggagccaatc cagaccttgc atgtgggctt tcaaccatc 399

<210> 19190
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19190

ntaaggaagc aatgcattac cccacatgga tcaatgcaat gcgattatct gctgaattct 60
 attgagaaga attcaacatg ggaacttggt aatctgcctc ttgacaagaa acccatagca 120
 ctgaagtggg tttataaagt gaaggtgaaa tccaaatgag gccagacttg tggcaaaagg 180
 gttcttatga aaacctggag ttgactatgg tgaggtctat gcacctgtgg caagaataga 240
 aacagtgaga ttggtggtag caattgcaaa tatataaggt tgggtctatgc ataaactaca 300
 tgtgaagtct gctttcttaa atggacagct agatgaggaa gtttatgtgg accagccact 360
 tcttgagaca ttgggacaag atgaaaaggt atacagattg aaaaaggaat atatggtctt 420
 aataagctcc atggcttgga aca 443

<210> 19191
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19191

agcttgtagg gttcattcca tattccgttg tcatatgcta aacttgatcc catatccact 60
 caataattca atggtagcca taaccccaac caagggttcct caacctccat ttttctgagg 120
 atacgactcg agcgcaacgt gtgcttatca tggaggagcc ccggggcatt ccattgagca 180
 ttgtatgacc ccgaagcata aagtgtgatg tctaattgat acgggctcgc tgaaattcga 240
 ggagaatcgc ttgttgaatc ctaacattga caagcaacac catacatggg gcaattctgg 300
 aagctggtgt tatgactcat catgattatc aagtttatgc cataaaccac agttactatg 360
 ctaaatagata tggataagat gga 383

<210> 19192
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19192

tctgtgagag cacttccttg agaagctaga gcttagctac acacaccctt ttcatatcta 60
 agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagttac 120
 acaaacctct ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180
 caccgctat aatagctaag ctcaccccca tgacaaaata catgaaaata caaaaaatat 240
 ccctactaca atgctactca taatgcctcg aaatacaagg ctaaaaccct atactactag 300
 aatggcctaa atacaaggcc ccaatgaagg anaaacctat tctaataattt acaaagataa 360
 gcaggctcat acttagccca tgggctcgaa atctacccta aggctcatga gaaccctacg 420
 ggcttcctt ggatctctgg cccaatctac ttggactctt ctatc 465

<210> 19193
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19193

agcttttcat gtctatgggt tctagagaga gaaaggtcca agttctagag agagagaaag 60
 gtccaagttc tagagagaga gaaaggtcca agttctagag agagaaaggt ccaagttcta 120
 gagagttttg aaagattttg ttgtgtgaag atcagaagag accaaagctt gaaacaagag 180
 ccggttttaag agcttgagat aagtttgtga gtgattgtga gatcctagag gtgaaggaga 240
 catcctcacc acttgatat ttgcaatctt tcattctgtt cttctctttg ttcttaagaa 300
 ggcttcctgg tatggaactg tggctcttcc ctataggtac ttgatgtaaa tataatntcta 360
 tctatntaat gatgttt 377

<210> 19194
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19194

atgtactgcc ttangcgatg ggatgcccat actaaagcac aacacgttct ttcgagcaag 60
 gagtaattca tctcacaggt cgtgaacttc ttacttaggt agtaaacagc gcgctctttc 120
 ttcccggatt cgtcatgttg ccccagcata caccatttg actcgtccaa gattgtcatg 180
 tacaaaatga gaggccttcc aggtactggg ggcataagca cgggaggatt cattangcac 240
 tctttgatcc ttccaaaaag cctcttgcaa tcctcattcc accagtcagt ttggttttta 300
 cgcaagaagt tatacaacgg ctcacaaatg gcggtgagct gcgatatgaa tctggccata 360
 taattcaa 368

<210> 19195
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19195

agatactcag ctctaaattg aattaaacat tcagaaactg ctggtaatcg anatcatata 60
 tgtgtaatcg attacacaag gcagattntg aattcaaatt ataatagttg ttgtaaatca 120
 gttttggcca ctggtaatcg attaccagag agtaaatttc ttgtaaaaga ctttctaact 180
 taattttctt ggccaaacct tttgctactt caattggaat tcccttccta tttaatatatac 240

cctttctaag actctataga ctgtcttgat catccatctt gaatatcttt aattgctttg 300
 tcttgaataa agctgtgaga cgcatgtgat ctttnggcat catcanaaca tcggcttgat 360
 cctttgtcta caatctcccc ctttttgatg atgacaatcc ctgaaatcaa gacaaactat 420
 ata 423

<210> 19196
 <211> 373
 <212> DNA
 <213> Glycine max
 <400> 19196

agcttttgcc tcttcatgtc tggaatatga atgttgcata tagatccaaa gaaccttagg 60
 tgcttttgctg atggcttatt cccgttccaa gcttcaatag gtgtcttgtc ttttacagac 120
 ttagttggac atctgttgag tatgtaaaca gcacagtaga ctgcttcagc ccacaatgtg 180
 ttatgtactc tcttctcctt gagcatcgat ctaaccatat ccataattgc gcaattcttt 240
 ctctctgaca cttcattctc gtgaagagaa tatttgacta taaggttggc gctcaatgcc 300
 ttcactctca caaaatcttt catactcgcg agaggtgtac tctttgccgg gatcacttca 360
 ttaaactttt atc 373

<210> 19197
 <211> 477
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19197

tcaagaaaaa gatggcctca gcaaattcct tatttccaga tagtttctct atcaatagac 60
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggcaataga tctaaatatc tgggaagcca tagaaatagg gccttatata ccaccacag 180
 tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaaccta 240
 tagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300
 taataacatc tgccctagga atggatgaat atttcagggg ttcaaattgt aagagtgcta 360
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagatcta 420

ngataaatgc actaactcat gagtatgata tatntagaat gaatgcaaat gaaaata 477

<210> 19198
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 19198

cggtgcctat agtagatgac gaagcatatc ttaagacagt actttatgta ttaacggtgg 60
 taaatgaagt gaatggtatc ataccaagtg acaaaattgt attcgttacc attggattca 120
 atgttcaaaa gtgtcattca aataaaccaa agcaaaactg ccaattcatg aacaatggga 180
 tgatggcagc cgaaatgaag aacgtatgct ctgaatggta ctagaacaca tgtccttaag 240
 tatggcagta tgggtgcacgt ctttctgcaa gacatttatt tgagagatgc ttttgggtaa 300
 tagggaaatg atggcagctg cacggaaata taaaatatgt caacatcatt ctcattcatt 360
 gtattgagtt taggtggtcc ctaatataat aggggtgcacg acatttgcta tcac 414

<210> 19199
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 19199

agcttttgat tatttatatcg acttacatgt aattcatgag tcataattta gtatgttaca 60
 gtacatttta ggcaatacta actactataa aataacatta atgtgtgcca ccaagcactt 120
 atagtgaact tcaatgaaaa cttttcattt attaacttga aaccggcatt gttaaaacat 180
 ttattgacaa gagtgtggt aaattttcta tatgatacag aatcgagagg attaaactca 240
 agttgcactt tttctttctt acttatacta ttagcatcaa ttctgttgat gcaactggct 300
 ttgatgtttt gatgatgaac aagatgatgt g 331

<210> 19200
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19200

tgatattnta ttgtttcaat caaagtcata aagttcatga tgaattgtat caaatagaga 60

aagaagtaaa agctggcaaa gaaagcaaca attgatcaaa tggattgaat gaatctcatt 120
gaaagaaatg aatgatgaat acatgtgttt catattatat acaatcaact ttgggcacca 180
atctaactac tagaaaatac aactaactat aactgcttct aactgtcaaa acagaaaaca 240
gttagtgcac aactaattct atatgttgag agccctccca atatgaggaa tgtatgttag 300
acatttccaa cttgagctgc aaaagacaaa aagcaatagg agagaaagct ttggtgaata 360
tgtcggcaag ttgataggct aaagatatag atagaagatt gatcaagcct gaaagcaatc 420
tcttgacac aatgttggaa gttaattttg atgtgctttg tgcgctcatg aaacacaggg 480
ttgac 485

<210> 19201
<211> 108
<212> DNA
<213> Glycine max

<400> 19201

gcaggtaaga actcgcgcta cccggcttgc aaccaacaca ctggagcaaa ggcgatagcg 60
ccaccgacaa tgcattgaccc acggcgctcac gcacacgggt aaagagcg 108

<210> 19202
<211> 213
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19202

ttttctatag aattattaaa caagcactta caagtacaac acagaggttt acctgtgatc 60
gaagaacttc cttgtatgta ccaatttctc gtaaggctat ggtgaatctg gtcataacag 120
gacctaggct ataaacgtcc gtcttanatc atttcatcac cattagactt ttagagtcaa 180
aggcaacata cagactctaa atcaaattat gaa 213

<210> 19203
<211> 220
<212> DNA
<213> Glycine max

<400> 19203

tatgcccattg gacatgttga tatgaccaac aagtatgatt atgtcctaaa cctagegcct 60
atgcgtgcga aagggcatcc aatgtcaatg acaagatatc caaacaaaaa tgtggaagct 120
actacagtgt cctttccatg tactaaaaat atcaagaatc cagcgttaa catagcaagc 180
gaaaaactca ttgcgacag ctagccacct tgtcatatga 220

<210> 19204
<211> 376
<212> DNA
<213> Glycine max

<400> 19204

agcttgagct tattgttgcg gttccacaaa gctccacgga atttggtcgc gccatgctct 60
tccttgcgag cctcttgggt ttctttttca agggctcttg cggtagcttc attttcttct 120
cgtaactcga cacactcttt ccagacgtct atagcgacta acttgaattt ttctttggca 180
agtcttgctt ttcttagatc tgtttttaga gcttggactt cttcactctc ttccggagct 240
tcgaagttct cctcgttgat aattttcaac ttggagagcc aatctaacc tcgtgtacga 300
actttcagtc attcatgata accaccaatg atgccataac ggatgccct aaattcttta 360
tcttttctta acaggc 376

<210> 19205
<211> 484
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19205

cgtagaatgg ctagacatga tacatgtcag ggtttggttt ggttctatgt taatattgat 60
gccccacatt atttccatga cacaatgca aaaatgatga tttggaaatt ntatgcaaaa 120
ctggtcatgc atgcacctat gtggacgctc aagtgtcaat ttttatggtc atgtgatgct 180
agggctcang attcatttcc tctattntaa atcaacccaa tgtttccaaa atatgttctt 240
ttatcaactt gtgcattcat ccaagtccat ttcgggcgctc cggagaaatt atcacagcat 300
tcacccttta ggtgtagaca cgtttctttc tttttcataa atcggttatg atcaatgaat 360
tcttttttca aagaacagtt ggaaatcatc tcttttcata agcatgtcgg tatctagcta 420
gacaacttat tttctctttg tcacctgtt cttacttgct tctttttact tattgctctc 480

tttt 484

<210> 19206
<211> 380
<212> DNA
<213> Glycine max

<400> 19206

agctagagtt tttctttata tatgacatgc atgatgccct tttccactgt atccacttaa 60
atttccatat gctagaaaat cattaatagt acaaaacacc attgtgcgta acctgaatgt 120
ctactgcaca ttgcatccc acacatctac ccctttcttc cacaattgtt tcaagtcttc 180
gattaatggc gtaagataca catcaatctc attccctggc tgccttggac ccgcatcat 240
catacacagg ataatgtatt tacgcaaat gcacaacct gggggaagg tgtaaatcat 300
cagtaaaaca ggccaggaac tgtggttgct gcttaagcta ccataaggat tcattccatc 360
agaagcaaga gcaagcctta 380

<210> 19207
<211> 225
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19207

tgtgactctt ggcaatntct ttaaaactag tcacttacaa agttgtgatt tttgtattaa 60
tcttcagaaa caagtcactt gaagaattgt gacttttggg aatttatatt tcaaaatcag 120
tcactggtaa tcgattacca ttaaggtgta attgattaca catgaacaga tgtgactctt 180
cattttaaat gttgaaaatt aaaacgttaa tatgctctgg taatc 225

<210> 19208
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19208

agcnagnnat ttatcttatg attaatacaag aacaagcttg agcgacatc gttcgcgtgt 60
actatatcca ctgcacaagg tttgaagtac aggagacctt caatcctata acgcaattct 120

agtagatata aatgggcagn naacttgaat ggccattatt gtcaatgctg aaggtattct 180
gcgcttcact atccatgtcc acacattatt gcaacttgag gttatgtgag cctgaactac 240
taccaatata tagatggtgt ttacaccaat gaacacatct taaaagcata cttcaciaag 300
tggtgacctc ttgggaatga agcggcaatt cctccttctg atgagggcatg gacacttatc 360
cctgatcctc tacaattcga gcgaaaggtc ggccaaaatc 400

<210> 19209
<211> 398
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19209

agcttaggtt ttatgatagc attcatccat agaataacct tcatnngnnn attcattcct 60
aaccataact cacccttttag nnnggcactt agcttaattc attgaattac agcatacaaa 120
cttattaact ttatttgtac ttacagtttt ttttaacaca acatatacag agatattatg 180
ggtatgtaca gacatagngt gtatggctgt tactttgacc atttccatcc ttacctaagg 240
cctcccccaa atttgggaca aatttacctt gataataact cccccaaaat tggtaaaaaa 300
tttctttgaa ccagcttct gtggatgatg ctcttctaca acctaagtca aggtagtaga 360
agatacaatt gaataggctc aaggttcaat caatcaat 398

<210> 19210
<211> 463
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19210

tgtccttggg ttagacatga ttggtacatg atttgngact tgtttgattc attttgggca 60
aaattggatg agggaaagag tggttttcga aatctgcact ttatgcagaa tttcgctgtt 120
gaaatgtgca gcagaattnt gcataagtgc agacaaatgc tatgtatctg ctggttgtgg 180
aaagggtagt acatatgggg ttctggacat ttgctagcag atcccaacgg tcaaaatgta 240
gacttatgta ctagagactt ctagtaaaat tttcgagtcg atccaacggt taacgaattg 300
gaacgaagaa aatgttattg gggatattgt atgtgaaaag ctgtgatttt gagttgtgtt 360

ttgggcagag tatctgactt tgccctgttt cgcttggttc tgtagtccat gatgattgga 420
 tgtggaatta cctggatggt gtggatagct tgggaggatt gat 463

<210> 19211
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19211

agctngccgt tatggtgtgt ttcgactatg ctctcgggtg gcggaacaag ctacaaaagg 60
 agagagcaag aaatgaatag ccaatggttg atacatgggc ggagatgaaa aggatcatga 120
 ggaagcggca tgtgccggct agctactcaa gggatttgaa attcaagctc taataactaa 180
 cccaaggcaa catggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
 cgaagattga agaagatgag gaggtaacta tggctcgatt tcttaatggg tcgactaatg 300
 atattcgtga tatcgttgag ctgcatgagt gcgttgagat ggatgatctg cttcaciaaac 360
 cactccatgt agagcaacaa t 381

<210> 19212
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19212

ggtgcatcca ataccctgat gaggatgtcc catatgttct taaatctgta ctgattcatt 60
 tgcttccaaa gtttcatggc cttgcagggt aagacccgca caaacatttg aaagaatttc 120
 acattgtctg ctccaccatg aaacccccag atgtccaaga ggatcacata tttttgaagg 180
 cttttcctca ttcattatag ggagtggcaa aggactggct gtattacctt gctccaaggt 240
 ccatcacgag ctnggatgac cttaagatag tattcttaga aaaaaatttc cctgcttcca 300
 ggaccacaac catcaagaag gatatctcat gtattagaca actcagtgga gagagcctgt 360
 atgagtactg ggagagatat aagaaactat gtg 393

<210> 19213
 <211> 365

<212> DNA
 <213> Glycine max
 <400> 19213
 agctttatct ttcaatttcg agcgtctcgt tatattacgg gactcaatca gacatccaag 60
 taaaaagtta tcatcgtttg aattggctca gagcttcaac attcaatttc gaacgactcg 120
 atatatgatg ggactcaatc agacatccga gtaaaaagtt attgtccttt gaaatggctc 180
 agagattcca cattcaattt cgagcgtctc aatatattac cggactcaat cagacatccg 240
 aaaaaaaaaat tattttcgtt tgcatttgct caaaggttca acattcaatt tcgagcgtct 300
 tgatatatta cgggactcta tcagacttcc gagtcaaaag ttattgtcgt ttggatatgc 360
 ttcaa 365

<210> 19214
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19214
 ctgagacaat tcatacgaca ataactgtnt actcggatct ctaatttagt tccgtaacat 60
 atcgagatgc tcgaaattga atgtggaatc tctgagccaa ttcaaacgac aataagttnt 120
 tactcggatg tctgattgag tcccgttaaca tatcgagacg ctcgaaagtg aatggtgaag 180
 ctctcagcca attcaaacga caataacttt ttactcggat atctgattga ttaccgttat 240
 ataacgagac gctcgaaatt gaatgttcaa cctctgagca aattcaaacg acaataactt 300
 ctttctcgga tgtttgattg agtcctgtaa tatatcgaga cgctcgaaat taatgtttaa 360
 gctctatcca attcaaacgac ataactttta ctctatgtct gttgagtcca taatatacga 420
 gacctcgaca tgaatctgaa ctctattcat tcaa 454

<210> 19215
 <211> 373
 <212> DNA
 <213> Glycine max
 <400> 19215
 agcttgtatt ttcttttatt atggaattga tccttcctaa gatggagcca aaccactca 60

ccctcattaa gaactagctc ttttcttcct ctatcgccct taggtgaata cacctttggt 120
 tggttctcta tttggtcttt aaccctttca tgctactttt atacaaactc tgacataaat 180
 tcccccttctt tatggataaa agaagtgtcc actgggaggg gaatgaggtc aaactgtggt 240
 aggggattga acccatagac aacctccaaa ggggactggg tgggggttct ttgaaccccc 300
 ctgctgtatg caaattctac atgaggaata tactcatccc aagacttatg gtttcctttc 360
 acaaaaaccc tta 373

<210> 19216
 <211> 486
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19216

tacggatatn tgttagaaat ggaactcatt gtgcaattca tcgcataatg tagtcgtgtg 60
 gttttcacta gttttcatta tatttcatct acgttggatc aattcacacc atggaatgta 120
 atagcattat attccatttc cctccattcg atccttctcc accaatcgaa acattagtgt 180
 gtcaagattg tatgcaataa agtggcctaa gtttgagtcc ataaattgct ttattcagat 240
 tatatacaag ggatttatca gaggactcca cacaaacatg gggcagccaa taacctcctt 300
 attccagacc tctgaaaact acagcctctg acagttagga tgggaagtcc atatctttag 360
 aaacttataa agagaaccaa aaaccttctc agtgttatga aactggcaca tgtgacatcc 420
 tgagaattct actcggaatt tctgtaagta ttacatttaa ataattatat agatatatat 480
 tattcc 486

<210> 19217
 <211> 363
 <212> DNA
 <213> Glycine max
 <400> 19217

tgcgtcgtct gataacactg tctgtggcat tagctggcat tataatttctt gcatgtaggt 60
 cttgaaccac taccatgta gttcgaatga catcaacgga atactgggag agtctgaaag 120
 cacaccgcat cattgtgtta tagacgaata ggcactccgt attattctat ctaaacgcgg 180
 atactaacgt ttgacagaag taaggtcaga tgtgctacaa tgtcatgaga acatttctga 240

cggatgattt ctcatatgat ccatactaact atatgcttag cactacotta tctaagtaag 300
 taaaatcacc acttaagatc tatgatgcag tgctcccacc aacggccttg gacatatgac 360
 tcc 363

<210> 19218
 <211> 358
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19218

agcttattat tattnnnnnaa ancnatatga agcaaacaaa taaatatttc actgtaatat 60
 aaactttgct tccaattata tatactcgct gaactttcta cattataaat tagaatagat 120
 tcacagtgtt taacaacaac aatatgttgt tattgtcggt gaccaccata ataagatgat 180
 ttaccttata ctctgatctg gaatgaaatt aaacatttca tactaaactt gctcaacctt 240
 atgncgaaga atgagataat cataatcata ctggacttgg tagacacttt atcatcatta 300
 gtgccgatga tggaattgat ttcaaagctg taataagtgg agatctttta ccaccata 358

<210> 19219
 <211> 95
 <212> DNA
 <213> Glycine max
 <400> 19219

tactaagctc ttgcgtaccg tgctgggctc acagaatgcc aagtcatttc ttttttacta 60
 gctatgtgaa ctgaatgatc ctgacgtacg acctt 95

<210> 19220
 <211> 297
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19220

agcttttgct tatggatcat tcattggngc acgtgacagt tatatcatac agctatactc 60
 atatattgtg tgatcatgta cttgtttaca tcagctgaat tcttgtgatt ctattgatat 120
 ctacttgatc atttgccagc attgtagggg ctctatttct aaggcctatg caactggtga 180

agaaacatga cgagtatgag aacatgatat aactctgggc caccaaattc aacttcttgc 240
agcttcaagc atatgcatga aatatatata tatatatata tatataatct agaactc 297

<210> 19221
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19221

cgtatttcta tcgggtgcag cataatgaac caccaggcct ttatgattac ccaacactct 60
tctgaagtcc ttcaatccat ccgctaaata gaatttgcta ccgtctcttc taacctttat 120
aaaatgtttt tcttcattgt aatcaaacgt tacatacagt gggtaagtaa gaccccgatg 180
tctgtgatat gctaattggta tttgaatgaa gttttggaat tatacatcaa ttacatgggt 240
aaccacacaa tagtagatat aattcttctg ttcatcttcat acaataaaaat gaataagata 300
gtcaatatga aaacacatat tctatcaacg tggaaaacac atngaaattt gtatataact 360
gggttgccga agaaactgtg tgttgccctaa atgacgaaat gtgtcatagt aaaacttttt 420
gcagacatga agcanataag ttgtctgata tatatggaga taacaat 467

<210> 19222
<211> 376
<212> DNA
<213> Glycine max

<400> 19222

tatgctttgg ttatatgcta accgtcaatc accgaaaaat gagcagaata aaaaaaaaaa 60
gatgaagaga gaaaaaaaaag ggctatggta aattaaatg ggttaagccc aataagctaa 120
gatgctccag ccaaacaaat aacataggtc tcttctccat gaccgcgtgt gtagaatttt 180
tgtgtgagag aagaatttag atataacgta acaaatagag aaaaaattat tatccaccgt 240
aaaaaaaaat tacattgtca taaaactatt ttatactgta aggacatgac tattaaacta 300
acatatattt agtagtattg tttttaatta aaattaatca agtggtgtat tttaaaattg 360
aaatctcact aaatag 376

<210> 19223

<211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19223

cgaaggaggg gagccaatgc ctctacttgc tcctagttga gaattgtnta ttttgtatag 60
 attgctagtt agcatgcaat taatctcagt tgtgttttca caggataaaa ttcaaagaca 120
 ttgggagcat cttgagcttt tgttttcaat agtcatgtca ataatatattg aaaggggggtc 180
 tttggaaacc gagaaaaatg tcaatatgct ttcttcaaga attcacaatc ctttatgtaa 240
 attaagtggc tttcctaaag gtattgtgga gaagaatcaa atcaacaatg ttgacttatac 300
 accaacaan agcattanga ttccacacac ggataaatta ccacaatata catcttgggt 360
 atacgtggct aggtgctgtc gactntcaag tttcatTTTT tttttgtcca atagatgacc 420
 tacgaattgc aatgcaattt tgtcataaga taaaatacat gtttcttga 469

<210> 19224
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 19224

tcttcttttg ctgttgctat ctgattgtcc atgtcagcca gtttttcagt tggttcaatg 60
 tttcctgaat caatcaaggc cataatcttc tcccgggcag catctggatc tacttctata 120
 tgagcacaga caaatatctc ttogagctct gcttgcttct tgaaagcaat ttccttcac 180
 ctgctggctt tcagctgac aagtctctca acttccactt cagcctttat tattaagga 240
 aaaaaacagt taatatcata cttggaactc gaatctgtaa acttcataag ttcttttagta 300
 cctacctgct caatcagatc cagagcaagg gcaccaggaa cagtgacttc atcaacagaa 360
 gctgacatat tacaggtaac atgggtcaaat agtctccttt cctcgggatg agtatccatt 420
 agattccaaa gatcaattaa ctgagaagct aattcttg 458

<210> 19225
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 19225

agcttagtct attatcatag aattcgtggg tagttttctg gaccacaaaa tttatgtagc 60
 cttttgtctt tttttttttt tttccggatg ttttaacttat ttgtctagtt catagcaatt 120
 tgtttgtgta ccatgaatat tcgatgaatg tgttgtatgg actcttcagc aattgacatt 180
 tatttgtttt atttcagttc taagggtgaa aacaaaaact tcgaaaatga cgctacaatt 240
 gaaagcaatg ttgtaaggat ttgacaaagg aaaaaatggt tgatctttta tgggtgtcac 300
 ccttttctgt tgatgaagggt ttgccatatg ctctcaaagg gtggcctaatt gttggtgata 360
 tatgggggata gaaagtgggg a 381

<210> 19226
 <211> 464
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19226

tcttttaaagc anaagataaa tagcaataaa taaaagaagt ctaaggggaag agaggtatgc 60
 aaacttgatt tatactgggt cggccacttc tcgtgcctac atccagtcct caagcaaccc 120
 acttgagatt ttccattctc tttgtaaaac tctttttaca aagtctgaac cacacagga 180
 caaccctttc cttgtgttca ggaatcctct ataacaagag acccacggtc tcttaatccc 240
 ttttcagaaa aaagaagaag agaagaagaa atctctctta aaagagatag attgtacaat 300
 gaagatcaat caaaattcct tattgcatat gcaagtgggt gaccaaggaa tctttntgag 360
 aagataagac agttcagttc agaaaaactc ttaatctttg aaaggataaa actttttggg 420
 caatgaaaac tccctttgaa tttgtgtttc caagtcacct ttga 464

<210> 19227
 <211> 321
 <212> DNA
 <213> Glycine max
 <400> 19227

gttgccataa agttactatc aagcgaagaa gatactatgt ccaatgggta tggagtatca 60
 aaaaattcat gcttgcccga atgattgcat attgaacaga catgaattag aagatatgtc 120
 aaaatgcctt acgtgtggga tatcacgctg caaagtcaag gatgatgagg agtgtattag 180

tgatgaatac tcaacgaagg gccccctag caaagggtgat gtggtatctg tcgaacgttc 240
 caagggtttaa gcgtctttat gctaaaggat acgacgctaa agatcttaca tggcatgcat 300
 atgacagaaa ctgcgatgga a 321

<210> 19228
 <211> 237
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19228

cgctgatact gtcattccagg gattactaaa atatgggcct atnataaatt gntccaagga 60
 gggttatgttt ctacgagagc tggaggaaat cttanaagta actcaacctg cagagttgca 120
 acgttgtatg gtaccattgt tccaccaaat aagtcgttgt ttgagcagtt cacatttaca 180
 gggttgataa ctattactag tcttcagtag ttactactgt ctctcgtgat catatat 237

<210> 19229
 <211> 406
 <212> DNA
 <213> Glycine max
 <400> 19229

agcttgatat tttgtgtttc aagaataaga gttaaaagat tattttattg agttagacag 60
 tggaggaagt cggcaagaca gggtgggtgc gtagttggtg tgtggaatat tcaaagaata 120
 atagaaaatg gaaaaaacia gaaatgagtc acctcgccg ttgactatct gcgtataata 180
 atttttcgtt ttttatttct gttgatgctc tgtcttttat aaccataaaa ttgtgggctt 240
 ttgccagctg ccgtgagggtt ttaccttcta atgagtcag acagtaatga aaaaaaatc 300
 ttttacttta acatatttac agaatagtaa gttcttctat atattaaacc aaatagctgt 360
 gtaagttatt acctctatct ttttcttct gtaagacatg aatatg 406

<210> 19230
 <211> 488
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19230

ctttanatta tatatataat atactttgtg ttaaaagtat ttagttattc taacttgaca 60
 ttatagttta atatataaag tattttatat agcgtgtact gtaacgatac tttaacacct 120
 aaatatatgc atgatagtat tcaccattta acacaacaaa taattgatat aagattaatt 180
 tgatgaaaaa aaaaagaaaa agagattata cattcacatt tttgtgctaa caaaaagaag 240
 ctaacaaaga caataaatta ataactgata ttttttaatt aaaaaaacac tcaacaaaca 300
 aattaatagc taatattttt aattaaaaaa acactcaaca aatagtaact gatatttttc 360
 aattaaaaaa acactcaaca tatagtaact gatatttttc aattaaaaaa acacttcaca 420
 aatagtgcta gtagtgcatt ctagatgata gaaggaaaaa gtggaaaaaa tgaaaaataa 480
 ttagcaca 488

<210> 19231
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19231

agcttgtgca ttcaataccc tgatgaggat gtcccatatg ttcttaagac tggactgatt 60
 catttgcttc caaagtttca tggccttgca ggtgaagacc cgcacaaaca tttgaaagaa 120
 tttcacattg tctgtctccac catgaaaccc ctagatgtcc aagaggatca catatttctg 180
 aaggcttttc ctcatcatt agagggagt gcaaaagact ggctgtatta ccttgctcca 240
 aagtccatca cgagctggga tgaccttaag agagtattct tggaaaanaa tttccctgct 300
 tccaagaaca cagccattag gaaggatatt tcaggtatta gacaactcaa tggagagagc 360
 ctgtatgagt actgggagag atttaagaaa ctatgt 396

<210> 19232
 <211> 482
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19232

tataagctga acatcaggaa aactgtagt attnttctat tntatacatt tatatggnga 60
 acatagacaa aatcagaagc aggctcatat ttaggaacag aaaagagaaa tatcgctgtc 120

agtgttcac agaaattcta atttgctcc taccaaaagg attacctcat aaatggcttg 180
 ataattgatg gagtggtagt tttttaagc aaagctatat atgacaagct taaaggcaca 240
 taattgtaac aatctatact ctaccacacg ggaatccaca atgaagaaca ggctaactaa 300
 agaatttaga ttataaaatt caccatcaac agtcgtgtag aaatgtgtct cttccaatat 360
 cccaaattac cgaacaatc ttttagtaac ttaaagagca actcatttcc atcatcacag 420
 tctaaatctg aagaacagat gtgactgatg aaaaatgaaa cacacacaga agcagaaaagt 480
 aa 482

<210> 19233
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 19233

agcttttaat ttatatggga aatgaacaga agttgagatc acaaattgct gaactacagg 60
 aacaactcaa tgttttgaag tgtgtgaact tggaggaagc tgatcatgag aataaaagaa 120
 agatagaaat agaagagata gaagaaaaat tggaggacat gatttttgat atgtccgtaa 180
 aagatgatga aaatcaagct ttgaagaaga aggtacaaga agctaaaatc gagctaaaag 240
 atgctaggcc acaaattatt aaagtaaagtg ttctgttctg agaaaatcct tattctaate 300
 cttatactaa agagacactt tacttcataa ttttattaaa ctttttactt taattattca 360
 acttcacaaa aagtaattca 380

<210> 19234
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19234

tcttgcgtag ccgctcttgg tgctcagaaa atccgcaaat ctaattcctc ttattactag 60
 ctantttgaa ttcttttagtt cctgaatgta caaccttcaa attgttgctc gttcccctct 120
 ttcttttctg caaaaaagaa aatcaatatc aaagaaaaca tggatgaaat cctaagaaaa 180
 tcaatatcaa agaaaacatg gatgaaatca caattaaaaa ccacaactac caatctttca 240
 gagtcctttg gataatatgt cttgtctcct tatgtggtgg agttttgttt aataatatta 300

tacttttggc ttccaaaaaa aacttatgac tgatcctctc ttcattaatc ctattttaga 360
 tgttattgta taaaagatca taggttctcc acctgcctac actattcctc ct 412

<210> 19235
 <211> 374
 <212> DNA
 <213> Glycine max
 <400> 19235

tttattttat attcctcact agcttatttc tcaatgtatt gcaccgaact taaatttata 60
 ttttattatt tataggaata tttttaatat attattaatg atttagtgta aattttgaag 120
 gatatgccaa taaatcattt atcaaattct taggtattat aatcgattta ggattctatt 180
 aaaaataaaa taaaatttaa taaatataaa ttttatatta attaaattat ttagaaaaaa 240
 taaatataaa gtatcatgtc acatcactct cataaaataa aatcttatat atatatatat 300
 atatatatat atatatatat atatatatat atatatatat atatgcacaa gtttagtgtc 360
 tcataccttg cata 374

<210> 19236
 <211> 350
 <212> DNA
 <213> Glycine max
 <400> 19236

tagcaacata cacaaacata catacacata ccaagagaca ctatcctata ctctatccgg 60
 tcaattgtaa aacatcatta atattcttat caatattacc atcatcgtca taagagaagc 120
 atatgaatct tattcgtcaa tctgattcac actacatgat tcaacacaca aatgcaatct 180
 atccaaaaat ccttcaagtc ttatggttct tacaacaaaa ttctgaaaag ttttctagca 240
 ttgaaaaccc cccatttttt ttatcacaag catctcccaa tctccttga ccaaaaaacc 300
 cacctccaca aatgtgatgg ttgacaacta tgttgttggg accccccccc 350

<210> 19237
 <211> 579
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 19237

acgcggcacc acactcgaac tgcgacactg gacggggcacg gatatcgga tcaacataca 60
aannnnnaaa gagagtgcnt ttgatgcaat cgataggaca nacgcgaaca tananaccca 120
agccacagga gtaacaagaa cgcttcagga gaggcgatga tttcatctac acgactcata 180
agctcaaacg cgtagctaag aagatgacga ccagagcgac gccaaagatag aggcgagatc 240
accgcaagat gaaattcgcc ctccagaacc acgtgtcaag aggccagaac cagacaaga 300
cccacgcgag agaggacaga tagcaccccg gccaaaactg ggagcacagg agctgcccac 360
accttgacca aagagcgcta ctctctggaa ccgacaccac aaacgagaag gacaccacta 420
gcaaaaggga acagaaagca ttaacagagg gacgacgggc caaccgaacg caacacgggg 480
aagaccagac aaagaagccg gaaacaacac caaccggttg gaccgcggca accccagcga 540
caggaaagag cagcgccccg aacagaaagc tgcgtgccn 579

<210> 19238

<211> 306

<212> DNA

<213> Glycine max

<400> 19238

gcgcgagcaa gctttattgt tagctctaaa tgacagttca agctagggtc atctcagttt 60
accgtgcatt taccacagac tttagactta acctccaac catcaacgcc taactctttg 120
tgcaactcata acatgacatt ctgacttga tcaccctacg ttagttgtac ccttgctctc 180
tgaccgcttt ccatccggga tacctgccta gccacatgac atacataatc agacaaaccg 240
taccacagaa tgggtatgtg taactcatcc aaacatggct atttcaacag gctctcaaca 300
agagtc 306

<210> 19239

<211> 473

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19239

cgaggctcaa gganaagctt gaagatgtta tagaagaagt tttgtctttt acatgcgcaa 60
atctnttgcg tggcatttgt attgggttatc aacttgactg atgcatctta ttacatttca 120

tatctatctt gcagtgtggaa gcaaagctac catgatggta atcgattaca ccattatggt 180
aatcgattac caatgaatgg ttttgaagaa aatgttaaga gttatagctc ttaacatggt 240
tttctcaaaa ggtatcaagg ttctataaat ataagacctt ggcacgcatt ttatatatac 300
aataacacag aaaaacacat ctgattacac agaactgtcc actgctattc tcttgcataa 360
actttgccaa attcattcta agattttttt caatctttcc tagacgaaag gaaaattctg 420
ccaaaacaca aactgtgcta tccttctgta ttctcatctt ttcttcattc tcc 473

<210> 19240
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19240

agctcgnacc cgggatctct aagtcacctg cagcatgcta gctttcttat ctgcgctatg 60
ctagntacca catgattcga gcagttatca atatatattt gcttatttaa aaaaatactc 120
cattttttta taagatattg cctctcataa aaaattgggc gaattaatct cttaacatag 180
ccaaccagca tgagatcatg ctctcagaca aaaagatctc acttgctcaa tcccagattg 240
atatcttaag atgcattctt ctcagggtag ttaccagcct cagcctcaca tagctcaaga 300
gctgttaaatt ttccctgaag aaaatctcac agttcaacac atccaacaat ttttggggat 360
tgtaaattat atcagagatt ttatccccag atcagcccaa tataccagtt ta 412

<210> 19241
<211> 304
<212> DNA
<213> Glycine max

<400> 19241

ttgcttttagt gtttcatggt ctagtctctc aaattttgat tcaactcgaga gctctacatt 60
gacagatgag gttacttggt taagggacaa attgacaact tctgaagaga atgtccagac 120
attaaacatg tcatgcttgc atacatccaa atgaatgaag ggcattattca ttctgagttg 180
ggtgctatgc ttggacataa cactactact gcagtttgta agtacttacc ttattctttc 240
ggtaagctta ctatattatt aacacttgac atgatatgat atctatttta taggatgaat 300

gacg

304

<210> 19242
<211> 385
<212> DNA
<213> Glycine max

<400> 19242

agcttccata tcattgacaa tttcccgttc ttattcaagc tttcgggtatc aacaaacttt 60
tgcataataa agtgataaac gtttttaaca ttgtaatccc tactttccaat aaatctccat 120
agccgaacat cttcttaagt aataaccagt gatggcattt tcatgatcgg ataagcatct 180
ctatgacaaa gaatttgatt aataatatca atattccaac atctatttgt agcatcaata 240
aaattttcca cctttttatt ctccacatca ttaatgagag gagtttcaat gaaaagatta 300
ctctctaacc tcaaccacga ctactccat aacgcaatat ttgcaccacc aaccaatttc 360
cacctatagc cttccttaac aacca 385

<210> 19243
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19243

ntagaaggat cactattttct ccgtgagagt gtcctacatg ccacatagcc tcctatgcct 60
acaccaatta ttgttggata ggtatcatca tatttatgct aagaaaatca tgcacatcag 120
aaagaataag ttaaaatagt ataccaattg gtacaatagc accatctgag ccaccacaaa 180
gcatcaagtc ctgcaattac ttacattntt aatgttttca ataaaataac tatataatta 240
cactaaactt gttntaagaa ataaaagatt ggtaaaatat gagaaatcta ccatctaata 300
agcaaagtct gaagtgagat acttacagct tcacctctaa tgatatgggt tgcagcattc 360
aatatacaaa aattactagt agcacacgct gtagagattg aataaatang gccatccac 420
ccctaaagtt ttcatatgat aaataaataa ttggttagaa gctatatata gac 473

<210> 19244
<211> 382
<212> DNA
<213> Glycine max

<400> 19244

agcttagtct attatcatag aagtcgtggg tagttttctg gaccacaaaa tttatgtagc 60
cttttgtctt tttttttttt tttccggatg ttttaacttat ttgtctagtt catagcaatt 120
tgtttgtgta ccatgaatat tcgatgaatg tgttgtatgg actcttcagc aattgacatt 180
tatttgtttt atttcagttc taaggttgaa aacaaaaact tcgaaaatga cgctacaatt 240
gaaagcaatg ttgtaaggat ttgacaaagg aaaaaatggt tgatctttaa tgggtgtcac 300
ccttttctgt tgatgaagggt ttgccatatg ctctcaaagg gtggcctaatt gttggtgata 360
tatggggata gaaagtgggg ag 382

<210> 19245

<211> 477

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19245

tctntanagc aaaagataaa tagcaataaa taaaagaagt ntaatggaag agaggaatgc 60
aaacttgatt tatactgggtt cggccacttc tcgtgcctac atccagtcct caagcaaccc 120
acttgagatt ttccattctc ttgtataaac tctttttaca aagtctgaac cacacagga 180
caaccctttc cttgtgttca ggaatcctct ataacaagag acccacgggc tcttaatccc 240
ttttcagaaa aaagaagaag agaagaagaa atctctctta caagagatag attgtacaat 300
gaagatcaat caaaattcct tattgcatat gcaagtgggt gaccaaggaa tctntttgag 360
aagataagac agttcagttc agaaaaactc ttaatctttt agaaggatan aactgtttgg 420
gcaatgaaaa ctccctttga atntgtgttt ccaagtcacc tttgatggcc attcata 477

<210> 19246

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19246

agcttgagat tatgaagtgt tgaagggtga aacttcctgc ttttattggt gaccacagag 60
tggtacctgg agatatgtcg cgggggtcag gagaccttgg ggacgtcagg tgggggtgcta 120

ttgccccaaaa ccaagcttga ccaatccccga cccaacccgg gcatagtcgg tcagtggagaa 180
cctgtgatgt acctaagcat gcgagctcct ggcagtcaac agataaaagg aacaaagacc 240
acaaagcaag gaggcttgtg gtggctggcc agctgtgaat tttgtgggat atgtggatta 300
tggcctctgg taatcgatta ccaaggggtgg gtaatcgatt acaaggctta naaatgaaga 360
taggaggcta agatggtctc ttgtaatcga ttacca 396

<210> 19247
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19247

ctatgatact cagcttctat agaggctgga tctttgagct tcaatgaggt ctttcaatgt 60
tgatttctcg ccatggagat cagcgggaaga taaaggagaa gaggtgaggg gaggcgccat 120
ctactaggga ataagccatg gaagaaggag cttcgccacc aagagagtgct cttggataaa 180
aagcttggag tgggtgcttc aatggaggaa aagaatgaga gagagagaaa gagagagggg 240
ggagcacgaa attgaaggaa gaaaagaggg agagaagttg aactttgaag tttgtctcac 300
aatacgctca ttcattgaaag ttacaacaag tgttacacat gcttctatct atagactang 360
tagcttctct gagaagcttt cttgagaaaa tctccttgag aaacttcttt gagaaaaatt 420
ccttgagaag atagagctta gctacacaca cctctctaata aactaagctc acctcct 477

<210> 19248
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19248

agcttgccat ttaatgttgt agtaattggc tctcactctc tgcttgacaa tcggaaggag 60
aaggtagtgt ctcatatta gatcgtagt atctcatgat tggaggaaatg tttttactgc 120
tgtatttact gactgcatga ttatgtttcc agacccaacc tgggtggcctt ctgtttacca 180
agtttgggag caatcagaca gcactacttg atcttgcttt tccggtataa gaaccactgc 240
cattgctctt cttaccttga tttaaagctt gtgtatttct agcatggaag ttacagttct 300

tgtcttttttc tgtaccttca cactattcat agctttttaga tctaaatcat tgttaatat 360
gttatatatn aaatgtagct tggctgcttc tgggttcctta anggagtaat tatcaatc 418

<210> 19249
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19249

tgtgatatct gcanaaaggt tgtgtttgtc aattttgggc atgtttatta tctcaaccct 60
aaaaatntaa gcaatgtcga taattntatt aacactactt ttcatttcac tgggtgcagca 120
ttaattatgg gcttaacatt ctacagggca ttcaaaatga gaacaaaaac ttaaaaaaat 180
cactgaaggt aatttaatat tagatgttac aattataaac ctttctccat catattttgt 240
ggagatattt tgcattacta ctggtatcca tctagtttct ttaccttgtc atgatttgaa 300
ttgtggaatt gtcacctgta ttctttgaat tgttnttcca ggatgtgggt actgagaatg 360
aatttgagaa aaaacttctt gctgatgtta ttccgccaac cgatattggg tcacatttga 420
tgatattgga gctntagaaa atgtgaagga caccttg 457

<210> 19250
<211> 332
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19250

agctttgaag agaattaaaa ctctagaaaa aaatgcttaa aaatctttgg ttagaatcgc 60
agtcagcata tattctacac cataaagtat ttgcacaatc attctcatcc aaggctgcct 120
tatttatcaa taaatatcta attagcaatg attaaatatt ccagattcta tcaaagcatt 180
tatgagttat tacgacacag aagcatcaga tgggacttca acattntaac cacaagcagg 240
tcaataaaac ccatttaatc tgcaagtcag tgttgatgac ctattcataa tgtgctatac 300
tagtaagggtg gtaaccatat ctttatcttt ga 332

<210> 19251
<211> 468

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19251

nggaacanna tatttgaatt cttggtctcc ttagagaatt tgtaaagatg tctgctagtt 60
gatcattaga actaacgaat tcagcaataa cttccttaga aaggactttc tcctggacaa 120
aatgacaatc aatctcaata tgtttagttc tctcatggaa tactggatta gaagctatat 180
gtagggcagc ctgattatct caacatagct tcatttggtg agtatttcca aacttcaatt 240
cttaaagaag ttgtttaatc caaatgagct cacatgtggc tacagccata gctctatatt 300
cagcctctgc actagacctt gcaacaacat tttgcttctt actcttccat gagacaagat 360
ttcctccaat agacacacaa tatectaaag tggaacgcct atcaatgcgt gatcctgccc 420
aatctgcacg gcaaaattca actatttgag tgtttccttt gtcttcat 468

<210> 19252
<211> 278
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19252

agcttctttt tcttgagact cgccaaggct ntcttcttct tctccgogaa caggtagtt 60
cccttacctt tttgcttgta atgtgcagca ctagtcacct tagggtagaa gacgagaggg 120
gagaagacga gagtatgccg gaaaaagtgg gggaaaaggc tgacggcgga gtcttccgat 180
agaccggttc cagatgaacc tcttccagaa agtttccgga agaagtgttc ttccggaagt 240
acccaacctt ttccggaaga caccggaac acctcttc 278

<210> 19253
<211> 485
<212> DNA
<213> Glycine max

<400> 19253

gtgcccacat acctctgtct gtctctctct ctctgatgtg ctttgcacat ctcatgaaac 60
cttgatattg caatgttgca aataccataa tccaatcgaa actagtcaaa ccttatatat 120
atatatatat atatatatat atatatatat atatatatat atatataaag cttaggggaac 180

actaaacaag agcgaccatg attacccagt ggagcctgaa aggccccac ttacacatca 240
 caactctcac acaacaacg agcccctctc tcgactaaac caatacgtag ccacaaccga 300
 aagacagatc atagatctca tggatataccg tttcgtacac tccatggata tcttccctct 360
 tcccttatgt ataatactcg agtaacgctc aaacggatag gaggtcacta ctctctatca 420
 ctctgatctg caggaatgat tagtcgcatt tgataaacta taccacaata gaacagatgt 480
 gacag 485

<210> 19254
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 19254
 agcttttcgt ttttctcgcc caggcgagca aagttgcttc ctccagaagc aacagccttc 60
 tggaggggccc aagtgggcct ggatgctatt tgcaccccc tttttactaa atgtaccgcc 120
 ctttctatct ttttgtaatt cttttttcgt aacgttacga aactttgcga atttcataac 180
 gatagttatt ttccttcgcg aaggttacga atccttacgg attatgtatc tactcttttt 240
 tagctttcga ataagttacg aaaactcacg gattgcgcaa aaacacctct gttcgacttt 300
 cgccacatta cagaatttca cggatcgcg cagcctgctt tcttttgatt tctgagacgt 360
 ctcgggactt catttatt 378

<210> 19255
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 19255
 tctggaagaa gcctcttagt gaagcttctg gaggaagtct cttattgaat gttctagaga 60
 aaactacatg aagctacctc ggtaaaaacg ctgcccagcc ttagttaacc gttggatctt 120
 ctcaaaatct ggtttgcaac ttcacaggac aaatcgacat aatctgaccg tcgggatcgt 180
 tgagaatatg tttagagtgt gctagaagct tccgttctcg agagcatctt ttatttaagc 240
 atttcagcct ttgctttcgt gtagcatacg aaacacgcca tttcttcttc tttctttctt 300
 acaaagccat ttataaagtt ccaagaactt tatccatcac ccacaaccac cattatccac 360

cacaaatcat ca

372

<210> 19256
<211> 578
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19256

tacgacccga cacgaagcac atcgacgcg atgcgatgcg attgtcantc ancaaaaaaa 60
naagagaggg ttgatgcac gtagnengac cgacacaaca cagccggcga atctgcgaag 120
acgaagngac ngngacgcgc aaacagggttg atatctgaag cgccacaaat nacnccgagg 180
acgagaaccc gtatgagcac caacgcaaca caccaactgg ngcagaactg acaaaaggac 240
caaagcagcc aaacgagcag cgcccatgac aacaaaaacg aagaaaacaa acagaaggag 300
gaacaaatga aacattgcgc tcgaaaaccg aaccgcgcca gaacttgaag agagcagacc 360
attacaactg caaaacaaca acctacctca cctagacatg atcgaaaact ggagaacagc 420
acatggaaac tcagaaacag cctaccacga cgcgagcact gagaatgaag atgggaaata 480
cctacgcgcc gggaaaaaac gccacccgaa gcggggggca gagaacaata agaccaccaa 540
agaggaaga ccctcgagga agcgcgacgc acccatcn 578

<210> 19257
<211> 353
<212> DNA
<213> Glycine max

<400> 19257

agctttttga tattattgag tgtgtaaaat gagatcaatg cttgggtcatg gacaaatgtg 60
tgcttatgaa tctaacttct tcataacatg tacagatttg atgcactaag gttgctagga 120
agaatgagaa gaaagagaat aatgctggtg ggcgattcag taatgagaaa tccgtgggaa 180
tctcttgatc gcttagtgcc aggaggtatt tgtatttggc ggaaaagagt gacttataac 240
ggacctggaa tggccttcca tgccatggta agagtgccag acatgtatca caacatgggt 300
tcttttcctt ctctgaaaaa tagagaccac ttatgtctac ctgaaggatt ttg 353

<210> 19258

<211> 224
 <212> DNA
 <213> Glycine max

<400> 19258

agcttctaac attggattgc acccttcctc acttataccc tcacatgtgg ctccctcttt 60
 aacatttact tacttctgag taatagaatc ttcttcacgc aaagagatcg taaccttact 120
 ctcaccaatt tccagcacc taacagcggg catttgtact atgcatcaca tatggcggtt 180
 ttggtatctt gcgcttactc atggatgcaa cggttactca tgga 224

<210> 19259
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 19259

cttaatttca atacaaggaa gcatgactta tgcctaggaa tctaaatttt gggttctgaat 60
 gtaaaaaggc atgaatatta ggacatgttt gagaggtttt ttacaattt aaatttggct 120
 gccccatgag gaatacctta cacctacgta gcatggaaaa tacctttcaa cggtatgtat 180
 agatgtgaat ataggtagcg cggaaatgcc atgcaaagcg tgtgaatata tggcatataa 240
 ataccttgca aagtgtgaat gaatagcaga aaatgccttt cacaatatgt atatttgtgg 300
 ataggtagca tacagagcct ttcaaaaaaa tgtacccatg tcataaatgg catgagaatg 360
 ctgtccaaat gaatatatga tgtggaattg cccctcaagt gtagata 407

<210> 19260
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 19260

ttaacaagcc actcttctag gcctctactt atgttgcgaa cacaataagg agtccaacag 60
 atacttaacc aaaagtaata acagaaatca aaatgcacac cggaaagtaa aagagcacgg 120
 aagaaagaga caaacactca cagagttttt atactgggtc ggcaacaacc tcgtgcctac 180
 atccagtccc taaacgacct gcggtccttg agatttcttt caaccttgta aaaatccatt 240
 tacaacaaaa gatccataag ggatgtaccc tgccttggtc tctttgaacc tactggatgt 300

accctccact agaactgatc cacaagagat gtaccctctt atgctctcac ccaacc 356

<210> 19261
<211> 365
<212> DNA
<213> Glycine max

<400> 19261

tcaccaccaa gagagtgtct tgcataaaag cttatatattga agcttcactg aaggaagaga 60
atgagacgac agcagagaga gtacagagca cacatgacag agctggctgc gtagaatgat 120
atgagaagca tcgggagaga ttgttgaacc tttgaagcgt gtctcagaag actctcattt 180
atcacagtta tcacaagtgt tacacatgct tctatctata gcctaggaag ctttcgtgag 240
aagcttcctt gatggaagcg cgcttacgat gctagagtta tacgcctcca atacgtaagc 300
tcaccctcac gacacaatac atgaacgaag agagcgtcct cgagaagctt cctgtgggag 360
caagt 365

<210> 19262
<211> 401
<212> DNA
<213> Glycine max

<400> 19262

gcgatcagct cgtcccggga tctctaagtc actgcggcat gtttcttgct ctttatattac 60
atagatgtac gcatttatgg gaggaggcta tatgacattc ttgctttaag agtaacgtcc 120
cactggtaaa actaactttc caaatgtttg ctttcgcagg aatggccccg aggaagcttg 180
cctcacagag gtccatgaac gacaaggcgg ccgagagAAC tatttcgcc ccggagtacg 240
acagtcaccg ctttaggagc gttgtgcacc agcagcgctt caaagccatc aagggatggt 300
cgtttctccg agagcgacac gtccagctca tggacgacga gtatactgat ttccaggagg 360
aaatagggcg ccggcgggtg gcaccactgg ttactctcat g 401

<210> 19263
<211> 338
<212> DNA
<213> Glycine max

<400> 19263

ctcgagagct tcctatgtgg aatttcgagc gtctcgatat attatacgcc tgaatcgaac 60
ctcagtgtta aaagttatga ccatttgaat ttctgtagag catcogttgt tcattttcga 120
gcgtctctat atgtgatgaa ccttaatcgg acctccgtgt gaaaagtat gaccatttga 180
atttctcgag agcttccggt gttcaatttc gagcgtctcg acatattatg cgcccgaatc 240
ggacatccat gggaaaagct atgaccattt gaatttctcg agagcttccg ttgttcaatt 300
tcgagcgtct cgatatatta tgcgcccgaa tcggacat 338

<210> 19264
<211> 383
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19264

agctntgata tttntaatta tgtgccctat cgcaagatta tgtgattatg ggtttttagg 60
atTTTTTTga agttactctt tgtgtatgtc ttatgacttg tttgtttgac acttacaatc 120
aatttctcat actgtgcaca tgtttcaatg taaaatgtat gggtgaaatt aattagggca 180
cacatctcaa ttacattaat cagttctatc aaaatcaatt ccactcaact ttaaaccaat 240
ctgactctta gtggaacttc taccttatcc cattgattat tagactgggt ttcatgattc 300
gtggattgta ttgtgatggg ctgaaaaatg gcacatccat gtgggtagtt ggaatgaatc 360
caatcccctg cctgagcctg aac 383

<210> 19265
<211> 318
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19265

tcttccggaa gtcttccgga agaagcttct tccggaagtt agttttctta tntaatgcgt 60
atgtaatgac gattctgccc ttgtgtaaatt ttctttaaat taacgtcttc aggctgtgtt 120
ttactgcgct ttctttcttt cttcttccgt ttgctttgat tcttcttccg ttcgctttga 180
tgcttcttcc gtttgctttg tttcttcttc cgtatgctga tgattcgggt gtgggccctt 240
cagcaatctg ttgggtgtcc cgtgaagcga agaatttgaa gatatggagg acccgtgttc 300

cctatttgaa gttctatt

318

<210> 19266
<211> 424
<212> DNA
<213> Glycine max

<400> 19266

atcactcgac ccgggaccc taagtcacct ggggctgcaa gcttgctttt aattctgac 60
agaatcaatt ttctgatctt caaaacctag ctccggcttc ctcttcccca tatcaactat 120
gcagcttgcg gtcaacatga atggccttcc caatattaca gggatgtcag tatcttcaga 180
gatatccatt accacaaagt ctgtcgggaa gataaaatgt tttactctga ccaacacatc 240
ttcaattact ccatatggcc tggtaatgga gtgatcaact aattgtaaag tcatttgaat 300
gagcattatt tccactctt ccaatctttt gcacatggag agtgacatca aattgatact 360
tggaaccagg tcaataaaag cttttccac tttgacttct tcaattgaac aaggaatagt 420
taca 424

<210> 19267
<211> 327
<212> DNA
<213> Glycine max

<400> 19267

tgtaatcgat tacacatata ctgtaatoga ttaccagagg agatttttat ataatttct 60
aaacagtcac gtctttgtct ttggttcttg aatggctatg aaaggcctat atatatgtga 120
cttgagacac gaatttgcta agagtttttg tgaacaaaaa gatcttattc tcttaaaaag 180
caaaattggt ctatctctt acaaatacct tggccataac acttggtgatt caataatgaa 240
ttattagagt gctcaaattg ttcaatctat ctctttcaga agaaatacgt cttctcttct 300
tcttattcta aaaaggatta aaaactg 327

<210> 19268
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n'locations
<400> 19268

agaggtcttg tatatttgca tgtaattnta agttcaaacc ctcatcgtaa gaaaaaact 60
 aaacacttat gatataaatt taatactatt attttatagt cattgtattc actatatttt 120
 ttattgtcat gttataaata tattattagc agcatataag ctatccctat caagaggaag 180
 gggcacacat ttgagttctt atacacttag taactataga ttccttacta tttggcaatg 240
 cagataacga acgaaccccg actcttcaaa taatttttaa tatatgactt ctactagtgc 300
 ttaagttacc ttcttttatt tttgaattta tgttctagct ctttagaaga cattaaacca 360
 caaatatttt ctatttttaa aaaaacaaca agtgaattta atttatatta a 411

<210> 19269
 <211> 486
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19269

actaagctan atagacgcag gaagcagaaa tagagtgctg gaagtaannt tctcaacttc 60
 tgtttgctgc ttaaaagtac aattcttaag cctaagcgag caaattattt tcaatgggct 120
 tcaaatccat tagtgattca ttgattcagc acaagatact tattcgagag tgtaacaca 180
 ctctctaata tacttttctt aattagataa atattttttt aagacaatca taagtattct 240
 taacatattt ctctgtccac ttaattacat tattagaaaa atataaaatt acaagcaaga 300
 ttcattaaat aaaataaata aaacacaaaa ttttataatt ttaataaat tttgattaat 360
 atcaacaata cgttcaatag actgtgataa aacatgttaa ttagtaacat ttttcataat 420
 taaccttggt tatttgtaga aataataaat ctttgcgagc tagaacttga aaaacaccat 480
 ttactt 486

<210> 19270
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19270

agcttcttat ttaagttcat cttggtggtg aagctctttc ttccatggct tattccctag 60
 tagatggcgc ctctctcac ctcttctctt ttgtctcttg ctgtatctcc atggtggaaa 120

atcaacatta aaggacctca ttgaagctca aatattcagc ctccatagaa gccccacaag 180
caagcttcca tcaagtggta tcagagcaca agagcttcaa gaaggtgctc cttaaaccctc 240
cattaattnt ttgctttacc ttctcttcta ttggtgcttc ttcatttttc tccatgtatc 300
tcctcacatg tcttgtgata aaatttgta acatgaatct ttagattttt caccgaataa 360
acttgctatt aaagctagat ttgattctct atggctcaaa tttcttggtc ttggtcttga 420
ac 422

<210> 19271
<211> 481
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19271

cgcttgtggg gcttctatgg aggctggatc tttgagcttc aatgttgctc tttaatggtg 60
gtntccacc atggagatgc agcgaaagac aagggagaag aggtgagagg aggcgccatc 120
cactatggaa taagccatgg aagaaggagc ttcaccacca agatgatcct tggataagaa 180
gcttgagag gatgcttcaa tggaggaaaa gagagagga gagaagaga gaggggggag 240
cacgaaattt aaggaagaaa aagggagaga agttgaactt tgagttgtgt ctacaagac 300
tctcattcat caaacttaca acaagtgtta cacatgcttc tatntataga ctaggtagct 360
tccttgagaa gctctcttga gataacttcc ttgagaaaat tctttgagaa aacttccttg 420
ggaagctaga acttagctag acacaccctt ctcataacta agctcacctg cttgagaagc 480
t 481

<210> 19272
<211> 394
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19272

agcttgtttt gtcttgttta taattaagtt ttgaataatt tagaataact ttaaaatagt 60
ttaaatgttt gatttttaat ctaatttttag tttattttgt tgtagaaata aaggaaaaaa 120
gaagagagtt gttgttgaa cccaattgaa ggctctttta aaggacattt tttaggctga 180

tcaaattttt tctcttttat ggtatttgga ctcaatgtgt atggcttagc ctacaacctc 240
 ttaaattggt gcaacttttc tatgccact tagcgagcag gtgtgcatta agcgacacac 300
 tcaattacat agaaatgaca atactacatg tttgacccta tntaagcacc aatggtgcgg 360
 atagaaggaa tatttgattg cgagaactat ctat 394

<210> 19273
 <211> 471
 <212> DNA
 <213> Glycine max

<400> 19273

cgtacggtta aagtctcacg atggtcacgt gctcatgcaa caattgttat tcgtggctat 60
 acgagacatc ttgcgaaaca aagtcagggt agcgataact cgcttggtgt ttttcttcca 120
 tgctatatgt agcaaagtcc ttgatctagt caagtttgat gagttggaaa atgaggccgc 180
 aattatactg tgccagttgg agatgtatct cccccccgc tttctttgac atcatgattc 240
 acttgattat gcatctggtc agagaaatca aatgttggtg tctgttttat ctacgggtga 300
 tgtaccagtg tgagcgatac atgaagatct tactagggtg tacaagaat ctatatcgtc 360
 cagaagcatc tattgttgag aggtacattg cagaagaagc cattgaattt tggtcataat 420
 acttacagaa tgctatacct gttgggcttc ctgagtgtct gcatgatgat a 471

<210> 19274
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 19274

agctttttaat gtcctatagg gacaagtcac aggtggaatg catggcttta aaggataaaa 60
 tgaacgcttg tcaaacgtca aaaagaagtt tgaccgaaca gctgagtaga acaaaagaaa 120
 atatgttcac aatcattgac cagtataagg aaaatgaaac ctagctgcta ttcattgggca 180
 aagactaaag gatgagcatg cgaaagtatc ggctctacaa atggaaaggg aagcaagaga 240
 gagagtgata gaattattgc acggggaggc gatgaaatgg atggatagat tcgctctcac 300
 tctgaatggg agtcaagagc ttccaaggct gttagccaaa gcctatgcaa tggccgatgt 360
 ataccagct cccgatga 378

<210> 19275
 <211> 97
 <212> DNA
 <213> Glycine max

<400> 19275

tcatcctgag atccctcttg ttggactaag cccaatagtt attttctct taggttcaga 60
 caaacttaga ctgagtttcg ttcgcagatc cttcttg 97

<210> 19276
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19276

agctttatcg ttattcccaa agcttcatgt agacttgtcc agaatcgga agtgaacctc 60
 ggatccctgt ctgatacaat actggaagga attccatgca accttaccac ttctttgata 120
 tacaactcca ctagcttttc cattntatac ttcatattca ccggaatata ctgagcagat 180
 ctggtaagtc gatctacata ttcagccaca tctttcttcc tgccatgcca ccaaactt 240
 ctcttcaaat cttggcacat cttagacatt ccacgatgga aactaagacg acttttatgc 300
 gcttcttcca tgatctttac tgtcaaatca tctaaagatg acacgcatat gctccccttg 360
 aatttaatta taccagttga gccctctcga actctacctc cttatcccc attt 414

<210> 19277
 <211> 601
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19277

tacgaacgag tacactgcag naggaagtat agtcacacct gatagcanga gantaaacnn 60
 aaaaaacccc nnaaagagtg gggtttgatg ccatcntagg acacacgnga caccananaa 120
 cacncaagct cggagcgnaa gcaaaccaga agaacncgaa gctcggatat tcgatcgagt 180
 cccgtagtat atcacgacgc gcgagcagga agacagaagc gcttagcgga ttaaaacgac 240
 aatgacgatt aactcggatg tccgattaag tcccgcgaata tattgagaca cacgacagag 300

aatacagaag ctgggagcaa atacaaaçaa caataacaca taacgogaat gaacgagtga 360
 gggccgcaat aaaccgagag ggcgagaagt gaaaaaggaa gcttgcagca aaggcaatac 420
 acaagaacga ttaacgcgaa gatccgatgg aggaccgcaa gataccacga cgctcgaaat 480
 tgacacagag aactcagca caagagacga cactaagaac tacacgaggg acgaacgggc 540
 aggcgaaaga agaatccgcc gaacggacta cagaacagaa agcaacacca acaggccgac 600
 g 601

<210> 19278
 <211> 248
 <212> DNA
 <213> Glycine max

<400> 19278

agctgttacc tttatcttat ctacagacg ctatatctgg gagccgatac agtccttgtg 60
 ttccgactct cagccactta cgatagccgc cgatgatccc attactgctt cccgtaagct 120
 ctctgtcctt tcttcacgcc gcatcccatg ccttgcgac tccttggagt actctcgcgt 180
 agtggtcact agaaccccat gcgatcaaag gcctgatgct tgggtgctaatt ggcgctcctc 240
 tcatgggg 248

<210> 19279
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19279

tctatagaag gttcattcct aattttctcta caatagcatt tctctcaatt agctggcgaa 60
 gaaaaatgtg gcatttacct gtggtgaaaa acaagagcaa gcctttgctt tgctcaaaga 120
 aaagcttact aaggcaccta ttctagctct tcctgacttt tctaagactt ttgagctaga 180
 atgtgatgcc tctggagtgg gagttggagc tgtattgtta caaggtggac accctattgc 240
 ttattttagt gaaaaactat atagtgccac cctcaactac cccacctatg ataaagagct 300
 ttatgcctta atatgagctc tccaaacttg tgaacattac cttgttgaca aggaatgtgt 360
 cattcatagt gatcatcagt cacttagcac att 393

<210> 19280
 <211> 223
 <212> DNA
 <213> Glycine max

<400> 19280

gacattatca ttattacttc ttccacggtg ctggaacgta cttacatgga cttgatgggg 60
 cctatgcaac tagaaagcct tggaggaaaa aagtatgcct atgtggttgt ggatgatatc 120
 tctagattta cctgcgtcaa ctttatcaga tagaactcac acacctttga agtattcagg 180
 atgtgagtct tacacttcaa agagaatagg accgtgtcat caa 223

<210> 19281
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19281

cgtccttggg ttagacatga ttgatacatg atttgcgact tgtatgattg aatttgggca 60
 aaattggatg agggaaagag tgattttcga aatctgcact ttatgcagaa ttttgcgtgt 120
 gaaatgtgca gcagaatttt gtataagtgc agaaaaatgc ttgtgtatgg atggttgtga 180
 aaagggtagt acatatggag ttctggacat ttgctatcag atcccaacgg tcaaaatgta 240
 gacttatgta ctagagactt ccagtaaaag tttcgagtcg atccaacgat taatgaacta 300
 taacgaagga tatgttactg gcgtatattgt atgtgaatag ctgtgattnt gagttgtggt 360
 ttgggcagag atttctgcct ttgctttctgt tagcttgagt ttgttagtcc atgatgattg 420
 gatgtggaat acctgaat 438

<210> 19282
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 19282

tgcaagtttg cttttatttt tacaagatgc acatcgggtg gcagctacct catgcactct 60
 tctaacgacc atggcatact tgctggcact aaattgctgg gagtctgagg ccatctttctc 120
 aattaaatga atggcttcag tatgagatat gtgttcaaag gctacaccac tggcagcate 180

tatcatactt atctacatat taccgagtc ttcataaaaa tataggagaa acaacctgat 240
 ctgaaatctg attgtggggg caaccgacac ctaaat 276

<210> 19283
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 19283

tttcttcact ttaggagacg gccattccgg tgttgagaa gatcaacgac aatgcctaca 60
 agattgactt gcctagttag tataatgtaa gtgccacttt caatgtgtct gatctatctc 120
 tttttgatgc agatggcgga gccttggatt tgaggacaaa tccttttcaa gaatgaggga 180
 gggatgagga cataaccaat gaccatgaag cactggaatg tcccatgacc atatgcagac 240
 ttatacaagc ccaacgcgtc atagagacac ggctggatcat ttgtatcgct gccattgatg 300
 atgattg 307

<210> 19284
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19284

gttgcgtnta aatccaagcc gtattggagt catattgaag ctgtttctag ccttaggaag 60
 ccgtatctaa gccgtatctt gtattttaaa aaataaaaat aaaataaatc ttttttggat 120
 actcctagga tactatccgg ccgtatccgt ggagtatcgg tgtcggatac ggggtgcgaca 180
 ccgacacttt tccttttttc acgtatccgg acttcacagt agtttatcaa tggattctct 240
 nttttctttt aaggaaggtt atttctaate taaaaataat taggtcttat aaaaaataa 300
 acatcatttt aaatttgggt ctttttaaata agaacaaaag gagtattgtg tgattctaca 360
 tatccaaaat tgggtgggccg tgac 384

<210> 19285
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 19285

agctntgagc ttattctagt tggctcctga aaatgtgtct acagctgtat gcttaataat 60
tagattctca ttgaaaaca tgctgtctgt ttgacttana taacaggatg tgattggatc 120
atgtgtgcaa gtaacttgca ctttttatga ttgtcttttg caccataagg tgttatggac 180
aaactcttaa agaagagatc tatctcatct gttatgttct ttgcaatca agaaatacaa 240
ttctttcttt tctctatctt ctaatccagc ttcttaacaa aatgtgttgt aaaatttgtt 300
cattgagaaa gtagtgtcaa atctaagata acatgtttct attggcccat gattacactg 360
ataatatgca nggatagtat acctaattc 389

<210> 19286

<211> 489

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19286

acctatgata ctcagctggt ctatagacta aatatgaaac tcacctatgt tagactttat 60
taatcattaa gtgagtcttg caagttacca aaaaataaat gatattacat tnttcaaatt 120
tctgataact cgttggatct aattttcacg tgattttttc atgtttatgg ttctttttta 180
tttgaacgtc ccttagcttc tacggtttca tataactaaa tcaaacaaaa caaatttcac 240
atctcgaatt gataaaaaag gattcaaaat tgaaaatgat cattgtttca gaagaattat 300
tttggctcac ttaacaaata tgaatgatta aattcaaattg taaaaaata agatatcata 360
ctaaatataa tcaaatatat aaaggactaa aagtatatct taacctatct ttataataa 420
ataattattt ttattatata nattatattt ttgaatttaa aaacataatg aatcttatta 480
tctaaatat 489

<210> 19287

<211> 377

<212> DNA

<213> Glycine max

<400> 19287

aaccggagag aacaacgcat ggaaggaaga attgatgtta gatgacacat aaccaaagca 60
ttagaccaaa agatgacgat acagagaatg gattttgaat tgccgaccac gcctacagtt 120

gcagcgcatt cgatgttgta gaatagcggc caacggacac actttacat gattgcctgt 180
 gatccgtaga tattaagaaa atatgcctac aaacggcgtg aggagatgaa tcgcgacac 240
 atagacccca aaaacctgga catggagggc ggatgcggct gcacaacatg ctttaaaacc 300
 ttgaacacag tatggcagtt tgtgaggtat ctgcactgcg ttcacagatg ctttgggaga 360
 gatcttaaat tgtggtc 377

<210> 19288
 <211> 587
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19288

gatctcacga tcgtacacac tcggatcaca cggcacagga tagcataacc gaagtgatac 60
 gatgtaaaaa anaacannnn nannnaagga gaggggnttg gatggcctcc gnanagacan 120
 gacacnanan annacncaag cccgcaccgg ggggggaagc gangggacgg ccaancgagg 180
 agcntattac tgcacaacaa aaaaagacca cggaagcaa gaaggacgag caagacgaga 240
 tacacaagcc atagatgcgc accgcaagac ggaaccacaa gagagaacac cggccacacg 300
 aggcgcaggg cgcaagacac cagcgaaca cgaacaccgc aaatcaagaa gagcaaacaa 360
 agaaaaaac gcgcgagcca aaccacacaa cgcccagcg gccacagggc ccacaaccag 420
 aggacccccg ggaaaaaaa ggcccacaag aaccccgaca ctgacggcgg gaccacacac 480
 gagaaaaaga gcagcccaa aaggaaagag cacaagcaac aaaaaacgaa gccacacccc 540
 acgcgagcgc aagcctggac agcacgggca aaacacagaa cccaacn 587

<210> 19289
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19289

agcttcaatg tatatctata ctcttctcc tattctctcaa taaaaagtca ggatcagatt 60
 tcaacacatt caaaggaata ttangaaatt ttcttttctt tattcttctt tttagtcaat 120
 aatttattga acaaagttat attatttctt aataaataag caacctcaag aagtttgctc 180

aaacacatac caaggagtca aggactctaa ttnttagagg aatcgaagga tatatatgaa 240
 agatatatat ggggtattcct gagagactgt ttaaagttat ttgcaagaat aacaaaaagg 300
 cataccaaat catgcctttt cagttccctg gtaatcttct tagtattgac ccattcatac 360
 canagatttc ttttcagtac aaagttgcaa caaactg 397

<210> 19290
 <211> 459
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19290

tgcttctaca ggatgggcaa tggttgaaga aggacgcaca acctctataa gatgatcgta 60
 ctccccctcc tcctcctcaa tgagatgact cctcagccct catgaatgaa gttctttcaa 120
 agttacgagg cctccaaacc tatgttggtg aacgctntga ttccttgaat ggtcgtatcg 180
 atgccattga tgctcgcttt gaaggaatgg ataccgcat cactcagctt gaggaggatg 240
 tgagttatct tcgtcgggtgc ttcgactttc ctccaccatc ttcatagata tagagtatta 300
 ttatctttga ttntacgcca tgtaacgcca tgtatttggc tatgtgtttt aagtcattat 360
 tctttgaact tagttatatt tcagtatttg gcacttatgt atttatgact ngaatatatt 420
 taattttgac ttatgaatgc gtatgtgaac tttattata 459

<210> 19291
 <211> 419
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19291

agcttggtat ttattataca aaatttggtg gctcttcttt gtagtttccg cctttccttt 60
 tgatcttctg gactaatgtc attttgtatg tattctaaga ttgacgtcat ctagttttct 120
 tgcctttcta tcatcatgaa gaatcttggg gtatgtatca tttgacatat aacactttnt 180
 atttctttgt gctcttcaat attagatacc tttgacaaaa gtcattctctt gcattttctt 240
 ctcttggaat gtaggtgaac tccatatttt ttaaattttt ctttgattac cccaattttt 300
 tgatgtattt ttgcaagatt ggttctttga cttggtattc tccattcaat tggttgagcc 360

aacaagttaa gttcgttgga cactnnttagc actttgacct ctatgtaagt actattttct 419

<210> 19292
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19292

ntntctaagc gtttctacac cccaattttc tccgcctttg gcaacatcta taagccaaag 60
tacttgggaa tcaatcacaa ataaaataat gaagtatagg aattacaaag tataaggcat 120
aaccaataaa aatcataaat acgacataac caaaccagaa tccaaacagt tcaaaattca 180
aaaaccacat agtatcaaag cataaaagtc tgaaatccaa atactgcaag ataaataaag 240
tactgaacat aataatctaa gtagcatagc caaataagag acatagaatt agaaactaaa 300
ttctaagaag gtagaggtgg tgggtggaaga tcgaaactct gacgaatgta acccacatcc 360
tcttcaagct gtgtgaggcg aatatccatg cgggcaaaac atgtatccaa tgagtcgaaa 420
cgttcaccaa cata 434

<210> 19293
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19293

agcttgtgac tcttgtcaat ttcataaaac tagttactta aaaagttgtg acttttgaaa 60
aaatcttcat aaataagtca cttgaagaat tgtgactttt ggaaatatat ttttcgaaat 120
tagtcactgg taatcgatta ccattaaggt gtaatcgatt acacatcaac agatgcaact 180
cttcattttg aattttgaaa attaaaatgt ttagaagctc tggtaatcga ttacaagtat 240
tttgtaatcg attacacaag tttaaaatac tttaaaactg tttaaacata agttataact 300
cttgaaattt gaaatattac cgttttaaga cactggtaat cgattactgc cttctggtaa 360
tcgattacca gagagtataa ctctntggta atgattctgt ganaacttct tatgctactc 420
aatattctgg aaaaac 436

<210> 19294
 <211> 423
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19294

 tgtacgagtg tgagaaacat cttcttcgac cttggagatc cttgtctcta tctcattgaa 60
 tcgcatgtac acttgtaact ccaaggatc aaacctttca ccaacaaagg tttgaagacc 120
 atcaaactg tccaaaatct tntgaagaag agaggaatct tctccaccat gtaagtgtcc 180
 ttcttcacg atgggttgag cacccttttt cacccaagag ccatcatgct ctttacggta 240
 accaaaggat gcaatcactg cagcacctat tagagaggat ctcttgattg gaacataagg 300
 ttcaaatca agagggatgt tgaagtgttg aatatagagg gtgactaggt gtggatatgg 360
 caatggagca tttaatcgca atgccttatg catgagatat cagactaagt gttcccaatc 420
 aat 423

<210> 19295
 <211> 379
 <212> DNA
 <213> Glycine max

 <400> 19295

 agcttttagt tgtttgaaat gtctggcata gcgtcgaaga agtaattatt aacggtttac 60
 tgaaacttga atgttgctgt aactaagttg ttgtgcaa atgtgtcttgc cctaacaag 120
 taatgtttga atgtatgact atatataatt ttactttgcy tccacacacc atatatgatt 180
 tttcatgttt actgagaagt taatagatac atactgcttt ttagtgtcaa taacttagat 240
 aataatgtgt aatttcacaa aacttcaaga gtgtgaaggg aatttgctct aataagtata 300
 actttggcat tacaaagggtg attatttggt tttgaacgag ttctcaaaca gcattggaga 360
 atgtagctat gattgggat 379

<210> 19296
 <211> 443
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19296

tgtgtttgag tgaggtgata ctttcttagc atctntgatt tcttatacct ctcttctcaa 60
cccgccatag taatgagaaa caggagcatg tctcagagta acaacatata catcaccaaa 120
ataatatcct atagtagata aataatcata ttccggatgtg cctaggtaaa taacaaatgt 180
ataatgatta cacctcacag aacaacatgc ataaatatac cagatctaaa cattatgcaa 240
gttattctga cctaggttgt tgtcaagagt cttggtgaac tgggtccaaag ctggagaaac 300
cttcaacott tgcttcagaa tctctctcgt cctctgaatt tgaacattct ttggccactt 360
catgaaccga gtcaagtctc tcttcgaggc aacgcccctn cgattctgaa cctctttgac 420
gcttctcaac agcagatttg aac 443

<210> 19297
<211> 389
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19297

agcttcttat atataagcta catgaagctg cctcggtaaa aaggctgccc agccttcatt 60
aaccggttga tcttcacgaa atttgggtctg caacttcaca aaaaactttt ccatgatctg 120
acagttggga tctttgagaa gatgtctgga ctgtgctaga agcctcttaa tgaagcttct 180
ggaggaagcc tcttaatgaa gcttctagag aaaactacat gaagctgcct cggtagaaac 240
gcttcccagc cttcggttaac agttggatct tctcgaactt tggtttgcaa cttcacaaga 300
cactttacca tggtttaacc gttgggatct ttgagaanat atctggagtg tgctagaagc 360
ttccggtccc gagagcatct cttatttaa 389

<210> 19298
<211> 473
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19298

ngagatgagg aagtgtagaa gggtgaaact tctgtctntt attctttgac cacagagtgg 60
tacctggaga tatgtcgcga gggtcaggag accttgggga cgtcagggtg ggtgctattg 120
cccaaaacca agcttgacca atcccgaccc aaccggggca tagttagtca gtgagaacct 180

gtgatgtacc taaacaggcg agtccttggc agtcaacaga taataggaac aaagacgaca 240
aagcatggag gcttgtgtgg tggctggcca gctgtgaact ttgattgata tatgggatat 300
ggcctctggt aatcgattac caaggggtggg taatcgatta caaggctcaa aatgaagat 360
aggaggctaa gatggtctct ggtaatcgat taccaagggg tgtaatcgat taccaggctt 420
gataatgagg tcaggaagct aggggagctt ctggtaatcg aataccacgg gat 473

<210> 19299
<211> 282
<212> DNA
<213> Glycine max

<400> 19299

agcttttatt attatggact gacctogaat caattgcttt gatagccctt tcagagccat 60
cgttcccttt cctgtgattg aagctcacta ctagccttaa ctgaataacc atgatatgac 120
catatactta aggaatttag gagctgggga atagtattgg gaataagtat gggggtaata 180
tgttgcattg gacaacttgc tatgcttgct atgactaatg atgcatgcat agccatactt 240
gatatacggt gtatattgca tatatgttgg acatgctgaa tg 282

<210> 19300
<211> 407
<212> DNA
<213> Glycine max

<400> 19300

tgcatatgga attgcatag ctctctcca tcattaggat ttgtttttgc catctcaaac 60
aaacaaatca aacgtatcaa gacaattata gttgttgttt gaataacctga cccactcaag 120
tgtatcacac aattatggat tttctctaata gaaacactct tgccttttac cactctaatt 180
ccccttcagt tcttatgcaa ttcaagagat tatggccaca gcaaagaaca attcaccaat 240
atgtgtaagg taaggctgga tagacaagga taaggtttac caagaaaaac gctatcaatg 300
tttttatgca cacgtgaggg agataaaatt cataattcaa gaattcaagt aacaatcctt 360
catgcaacca atatattatc ttagagagat tattattttaa tagtctt 407

<210> 19301
<211> 302

<212> DNA
 <213> Glycine max
 <400> 19301
 gctttatatt taagttgaga gaaacacccat gtaaatacag ataaaatgaa aacacttttaa 60
 ttccacatct acacttttctg aattcatgta taacattact aacaaaatat atatatatat 120
 atatattgat agtgaatatt tattgtataa tttaaattta taaaaatatt ttatgcatta 180
 gatcatgggtt ttataaaata aattatattgt ttacaatct gggatgtgaa agtagatttc 240
 ctatcatgtc taatagaatc atgttttttag aggggtcaatg tagataagca catatatgga 300
 cg 302

<210> 19302
 <211> 480
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19302
 tgtaggatta tggngtacct atcacatgtg gtactagggtg gcgttctggc gatgggtgcac 60
 aacaagtttt ccacatgcac aatgcgcgca taaaccacc atccgctgtt gccacactgc 120
 aactgagctc acgtactccc acgtagccca taccctcgtt gctctcaaca ccgggtcccc 180
 atcaatcctc ccaagcttcc acaacatcca agcaaaacaa cattcaaaca gcacaagcta 240
 tcacagccaa gcgaaacaga gcaaaggcag aaaactctgc caaaacacca accaatcac 300
 aactgttctc acttagagac cccagtaaca attccttcga tccaattcgt taaccgttgg 360
 atcgactcca aaattgtact ggaagtctat agtacatgaa cctacattgt gaccgttggg 420
 atctactagc atacatacag aactcattct ggactactct ttgcacagcc aaccacacac 480

<210> 19303
 <211> 191
 <212> DNA
 <213> Glycine max
 <400> 19303
 gtatcgtact atgacgtgaa atatcctgta taatctattg acatgataga ttgatgtgtt 60
 ctctgtgcta tcatgatgtc agtcaagtgt gttctggcct tgatcacgta gccgcatgct 120

ttacttcgaa cgatcaattg agaatatagg tctgattcgt acatattgat atgagcaggc 180
gagtatttcc c 191

<210> 19304
<211> 412
<212> DNA
<213> Glycine max

<400> 19304

tgtagaatgg ctagacatga tacatgtcag ggtttggttt ggttttggat aaaagggatg 60
ccccacatta tttccatgac acaaatgcaa aaatgatgat ttggaaactt tacgcaaaac 120
tggtcatgca tgcacctatg cggacactca agtgtcaaat ttttatggcc atgtgatgct 180
agggctcagg attcgtttcc tctattctaa tcaaccaat gtttccaaaa tatgttcttt 240
tatcaattcg tgcattcatc cgagttcatt tcgggctgcc ggtgaaattt cacagcattc 300
acccttcattg tgtagacaca tattccacaa attggttatg atcaatgaac tttttcaaag 360
acaatgtgga aatcgtctct tttcaaaagc atgttggttt tcagcttaac aa 412

<210> 19305
<211> 387
<212> DNA
<213> Glycine max

<400> 19305

tgtttgctta tgtctttgag aagcgggaga ccggaagacg ccatggagcg atgatatacg 60
aagaccctct cccgtcgact agtgcctcgg aaggaaacat caagatcgac gggacattcc 120
tcatggatgt aagggggggt atgaacaacg cctgtgatcc cgttgctgat agatatattc 180
ccacatctag cgatacatga gtctgcatca tctcttcca cgcttgaga ggaaaccgag 240
gacgatcatc tgaccccata ggagaattcg acatctcggg cagcacaacc tgctacatgt 300
gacctccatg ccctgatacc aaatttagtc ggattaagag cccattgtgc atctgccgcc 360
tgaatgccat ggccgaagac tacaagg 387

<210> 19306
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19306

tgcgcatact gcgtcaccaa cacacagctg gcttcgagac ttcttagacg atagaacaca 60
gcaccgctat tctatgtncg gcaccttgcg caccatacat gcgttacctg tacctcaact 120
gtgaatcgag ttcatacatc cccctactat cccattgctt atgttgata catgctcctt 180
ctacaaactt tgaattgcgc ttattccatg cccacgctta ataggattac taatgcacat 240
accttctcac cctcatgac aaagcattgg cttaaata tgcctatata cgaatctaaa 300
taacacctta atgtgcttac tgagatgtga tactatgtca ttgccacat gccaaagcct 360
aggcaaaact cataatataa ttgcaagata attatactga ccatagggtg tgacgggtggg 420
tatatagggg aaaacgcgct taatcactct caccgttctt tcccaaccat gcg 473

<210> 19307
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19307

tagctttgag tgtgccgact gaagccaaac aagcaacgtt tggatcatgca ctcaggatta 60
acacgatcca tgattcgatc atcttctgtg agaaattgac gcggaatgac tggattaacc 120
acaaacctct gcaacttatg cgatttaatg actggttcaa cgtgttgctg ccagtgtaga 180
tagttggaat catccaattt ctcagctatc gttgtcggaa atgaatgcga actgaaacct 240
tgagatgacg aagccatgta tgtgaagggtg cagctcgata aactgaagag aggagctttt 300
atgaagtaac aagctntgat accatatcan aattagagaa ctaagtgaac aaagagaata 360
agagaaaaca tt 372

<210> 19308
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19308

tagaacagta tacttggcct tcatttaact gtctttggtg tcttggtggc cagctcaac 60
aaagtacttt cgacacctac tgtacattga tttaccaat gctgttatgg gaatgttgcg 120

acaatccttt aaaaccttat tgatacatte tgagaggttc gttgtcatgt gaccatatcg 180
 acgtccttct ctatcgtaag ccatcgcca ttttccctt gagatgcgat caatccatgt 240
 tgctatggct ggactcagtt cacgaaattt ttctaaattt tgataaaaaa tgtgcttgca 300
 aggagtgtat gctgcataaa attagttatg aataacaatt ctaagtataa atgaaagtaa 360
 aataaacgtg accatcatat atgaaatcgt acccaatttc ttcaacattt ctgtntgttt 420
 ggcattattg aatatttgat tgaagtgtg tgctatgtgt 460

<210> 19309
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19309

agcttaccac tataggaagc catggataag agcatgaagg taggagaaga tgagtggagg 60
 gagaaggaga aaaggagcac gaaattttat gcctcaattg aagtctaaaa tttgaagtgt 120
 aattctctaa taatcaaagt tgaaaaaaag cacacacatg gcactctattt atagcctaag 180
 tgtcacaaaa ttggaggaaa atttgaattt ctattcaaatt ttcacttgaa tttgaaattg 240
 aatttgtgga gccaaaattt tactaattat gattagtga ttttagctat gtttcaaccc 300
 actaatccaa gatcaagtcc aagattcctc actaagtgtg ctttaagtgtc atgtggcatc 360
 taaagcatga aggacatgca caaagtgtga cta 393

<210> 19310
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 19310

tagacgcact aatttaccat acgcacagat accaaagata tttccgtcca tacctaccat 60
 agctaacact gaaccatata tgatgcgtac aacttctgaa gaacactcag tgctcatgga 120
 aactcaagag taaaacatag ctaaaatacc actgcaatca aagtacataa tgaggacatt 180
 cactcactat attaaaagct caactgctac tataccatgc ccatgctaaa attaaagata 240
 aaagataaga tcttttttct acaattttca cagaatctgg ctaaacaaaa ccatatgcaa 300
 gataatagaa gttaccctaa tggcactatg gtgtgtaaca acgcgtacaa tgcgagcacc 360

tc

362

<210> 19311
<211> 396
<212> DNA
<213> Glycine max

<400> 19311

agcttgaccc ttacgagtca gtttagtcaa aggtaaagct aacttggaga aaccttctat 60
gaatctctgc gagtatcctg ccaaaccag aaaactccta atctctaaaa cagatttggg 120
actctccac tcaagaacga cttctatctt agatggatct acagctatgc ccccttgaga 180
tatcacatgc ctaggaaac taactttctc taaccgaaac tcacacttgg acaacttagc 240
atagagttgt cgatccctaa gtgtatgcag cacaatcctc agatgttctt catgttctc 300
tctagtcttg gagtatacca aaatatcatc tatgaatacc accacaaaac tatcaaggta 360
agggtgaaag actctattca tgtagtccat aaacac 396

<210> 19312
<211> 426
<212> DNA
<213> Glycine max

<400> 19312

ttgtgtaatc gattacactt atttggtaat cgattaccag tgactgtttc tgataaatca 60
aaagatgtaa ctcttcaaaa aggtttttga ctttttcaaa ttgttttttg acttcttcag 120
aaagtctaac cacttcaaga ttcgtggcct cttcaaatac cttgtttcct gaaggaaatt 180
ccattcacag accaccatt ttcaatggtg agggttacca ttattggaaa acccgatgc 240
agatattcat tgaagccata gatctacata tttgggaagc aatagaaata ggaccacaca 300
taccactgt agtagatgta agcacaagca ctacaacca taaacctaga gataagtga 360
cagaagaaga taggagaaga atccagtagt caattacatg ggatatcatc ccaggaacaa 420
tttcag 426

<210> 19313
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19313

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agcttattat tggacatttg aatgaaatga attttgtcaa aattttgtta aagagctacc 60
agttaaatta cgaaaaaatt ataatatatt atttttttgt aaaattagcc atgagagttg 120
aaagatctaa acgagaactt tatatatcca tctttatgag tgaaatttct tcaaactctg 180
aataaatgaa caaaagaagt aggcaatata ataagctata aagaaaggaa caaacctcta 240
ttcttggaat tggatgaccg tgagttgtga tttgtcttta cttgtcacta ttccaaatcg 300
taagcaataa actgaatgtg agaaataaag agcagatttt ggaagaaagc aganatatgt 360
tggcaagcta aacatgattht aaggatatgg atggcgact actagtcc 408
```

<210> 19314
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19314

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ntacaaagca gcagcttcaa aacgagcgaa gtattcataa aggagtatgc tgagttgcaa 60
atataaagaa gaaaagagat gggaaaaaag agtacttgct gacaaacagg agctttcctc 120
attcttagtt cgtctcacia caaaggtaag atccttaata tccttatcgg ttacttgcg 180
ccagtgtttt aatttatcca ttgctgaaat gaatgcctgt aaataaatat atttgcata 240
taccaatatg tctgttcta actctttttt tttttttaat tatcaatttg ataccaata 300
tatattaaaa gatcttggtt tgtgctgtgt gtttggatgg gttaaagtgg tgatgatgga 360
gtttgagcag tgacgttggg ggc 383
```

<210> 19315
<211> 414
<212> DNA
<213> Glycine max

<400> 19315

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agcttaaaca ttcactttcg agcctctcga tatgttacgg gactcaatca aacatccgag 60
aaaaaagtta ttgtcgtttg aatttgetca gaggttcaac attcaatttc gagcgtctcg 120
atatattacg ggactcaatc agatatccga gtaaaacgtt attgtcgttt gaattggctc 180
```

agagggttcaa cattcatttt cgagcgtctc gatatgttat gggactcaat cagacatccc 240
agtaaaaagc tattgtcgtt tgaatttggc cagagattca acattcaatc tcgaacgtct 300
cgatatatta cgggactcaa tcagacatcc gagtaagaag ttattggctg ttgaattggc 360
tcagagcttc aacattcaat ttcgagcgtc tcgatatatg acgggactca atca 414

<210> 19316
<211> 422
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19316

ctgagccaat tcagacgaca acaactttnt gctcagatat ctgatttgtt ccagtaatat 60
aacgagacgc tcgaaattga atgttgaagc tcttagcaaa ttcaaacatc attaagtatt 120
tactcggatg tttgattttg tcccgtcata tategagacg ctcgaaattg aatgttgaac 180
ctttgagcca attaaaacga caataacttt ttactcggat gtctgattga gtcccgtcat 240
atatcgagac gctcgaaatt gaatgttgaa gctcagagcc aattcaaacg acaataactt 300
tctactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcgagat tgaatggtga 360
acctctgagc caattcaaac gacaataact gtttactcag atgtcggatg ggtccgcgta 420
ta 422

<210> 19317
<211> 333
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19317

agcttgaact atatctagtg agagtgtgaa cttaaactgt gagtgaacga ctaactgtga 60
gtaatgatct ttgcatgaat ctctaaattt tagaatgaaa tgtataaatg atgacatgat 120
gaaggccatg attgtacata cacaagctct tttgacccaaa tagcttacct taaatgataa 180
ttgcatcctt tgctcccttt ttgagctgaa tgatattgtc aaaaaaaaaat ttgaaccctg 240
aacttaaata aatatctcct gataccttgc ttogattcta ggagagcata tggtnaaga 300
caatttactc taaatttggg ggaggaaagt caa 333

<210> 19318
 <211> 448
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19318

tcagcttcaa gctnttatct tagattagga atattgtgta atggtccttt gttgggcttt 60
 tgtgatttct tctattattg tgtaactaga accttgctcg acgaggaatg gtgaattttc 120
 tgtagagtaa gcttatgagt ctctcagtct ctcaagcctt ttaatgcaca gcctactcac 180
 ccagttttta gtgatagtca ctgggtggaaa ggagccaaga gaattcaagg atttcttttg 240
 cgggtaagtc acaaaggccg cttacaaatg ctagaagatt gagattggga ttatctaaaa 300
 gtgattttgt cattgtgtgt gaatcccata gtgaaagtct catatgacac caattcggaa 360
 ccatactttg gttgggtcaa acctggagct gttcttttga ttacatgatt ggcttgaatg 420
 gattcactat aacttccaga atgttgcc 448

<210> 19319
 <211> 368
 <212> DNA
 <213> Glycine max

 <400> 19319

agcttattga taaaatactt acttgatggt gatgaacaaa agcacgaaac ggaatcaaaa 60
 aatacgaaaa atgatgaccc tagggctgcc aactcgtaaa tcccgtaggt atggcttttg 120
 aaagggggga aaagaggttt ttgaatgcaa aaacgtcccc cctttcgtca ttcttataat 180
 tcgatgcacg gatggctcgc ccaggcgagc taacctgcat ttttttttg agaggaacat 240
 taaccatgtc cctccttcc ttatgattta acgtcttgct taacttgaac ttacttaagt 300
 tagagttagg cgttgattac ttatttttaa aacaaacaaa tagtaagaca actgcgaata 360
 caaaggat 368

<210> 19320
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19320

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tctccnctta ttgctataa atagggggag aagtgaagat tattatggtt caaccctta   60
ggcacttctc tctctttcga atttgctgag gaaaattatt tccgtgaaga aaatccaagc  120
cgaggcgctt ccgtaacgtt tccgtgagta attatgcgaa gattctcgac cgttcttcaa  180
agattcatcg ttcgttcttc gttttcttca gtcttcaacg ggtaagtacc tcaaaccaag  240
cttttcaatt cactctatct acccggtgtg gtccacattn tgtttcatgt atttttattc  300
tcgttttcat ttactttnta taccctcttt tgacgtgctt aagccgttta tttaagtcac  360
ttctcgctta atctaaaaaa taaaataaat ttccaccgat cgtttgaatc gcatcatccc  420
gtaat                                             425
```

<210> 19321
<211> 584
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19321

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acacgactac aaccaganag agccggtanc aaccgatctc aatataatth acanaanaca   60
agagtgggtt gatgcntcct ggacnacgga cctataaaac tcagcgtgag acagagctct  120
cttcttgatc ctctcacaag ctcatgggat ataccacaca ttactttacg aacgccgtgt  180
tgcaaaagca acgcaggtat cactatcaac ggtgatgtta ctttcacgta gcacataata  240
ctgatctacc atcattcaca taatatcaat caacagcact cttttcttac ctctattac  300
ctcccgctat atcatcgga tcaacggatc acacatctac angcgagacg atgagaacga  360
atcattatgt gaagaataac aaaacagatt cctaagtact atgaaatcaa tgccagaaag  420
acacacacct tgtcatcgct tataccaatc tgccaagtac caaggccaag cgtgattgac  480
caaatagata tagcgaccat ctagatgctt atcctctctt acccagaaca aataccgaca  540
caatactaata gacagtaacg acactccgaa acagagatcg atcg                     584
```

<210> 19322
<211> 421
<212> DNA
<213> Glycine max

<400> 19322

agcttaacgc ttatttcctt acgaacgctc tcttgacaaa gacatttatc taagaaaaat 60

gcacccatat acaatcaagg cagcttcggt acctatatta ttacacgta cttccaagg 120

gtatctgtta cttacatcac acacatctac ttggctaaat ttacatacat gcatactcaa 180

agcatattgg ggtacccaaa attgcacatg tgcacatcat cgcatttcaa atacctatac 240

atacacaaac ttcatgatga atcttgacta tctacacaat aagggtgtac attccatgct 300

tctttcaagt cttcgctacc taaaccgca tgcaaattca agcatattaa cctttgtgtg 360

ctaaaatagt ttacacatta gaggggtctac atttttttgg atgtatttct ttactaacat 420

g 421

<210> 19323

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19323

agctttcctt ttgtccctt cctcacttat accctcacat gtttctccct ctttaacatt 60

ttcttacttc tgggttaatag atcttcttca cgcaaagaga tcgtaacctt actctcacca 120

atttccagca ccctaacacc gctcattttt actatgcatc acatttggtt tttttgttat 180

cttgacttta ctcatggatg taagggttac tcatggatgt aaggagtcag gtaaattcgc 240

tattttaaag attataacct tccatcaatg taattttggg cctctactgg cttattcctt 300

aacctttgta tgcattaagg ctcaaggaat ccatgcatat caccaagccc taactgttga 360

cttatttaat ccatatancc taaatgtgga aatattaat 399

<210> 19324

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19324

ntcaatagca acagtccatt ntcccttgac tgagatgaaa tcaccatctt ccaattttac 60

tttggaaca atgggtttgt caagttcttt aaagagggtc aggtcattgg ttatatgggt 120

tgtgcagccg ctgtctatta accatgaatc actggaacta ttgcttgtgg caaagcatgt 180
 tgtgacaaag agttgctcat cttcttggtc ctccacaacc acctttgctt cctttgattt 240
 gaacttgcat attcgctcta catgtcccat attgccacaa tttccgcaact tgacatctgg 300
 cctccaccaa cattttcttt caggatgatt tgtctttntg caatgcggac aaggaggaaa 360
 ggtctcacct tgctgcttgt tggagccttc tagcttattg ttcctccatt agttgttctt 420
 cttgtctttg ccacctc 437

<210> 19325
 <211> 175
 <212> DNA
 <213> Glycine max

<400> 19325

tagctttgag cttattcaca cgacactaat gtgttgctcg gatgtctgat tgagaccgt 60
 aatacatgga gacgctcgac attgaatgat gaagctctga gcctagttcc acgacgataa 120
 ctctttactc ggatgtctgg ttcagtccca tacttcattc ggacgctcgc aattg 175

<210> 19326
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19326

tcagaattca atttcgagcg tctcgatgta ttacgagact caattattac actccgagtn 60
 aaaaagttat ttgtcgatgt gaatttggtt gagagcttca acattgcaat ttcaagcgtc 120
 ttgatatatt acggaactca atcagacatc caagtaaaaa gttattgtcg attgaattat 180
 gtctcagcgt cataattcta tttcgagcgt ctcaatagat tacgggactg aatcagacat 240
 ccgagcaaaa cattattgtc gtttgaatta tctcagacct tcagaattca atttcgatcg 300
 tctcgatata ttactgggtc caatcaaaca tctgaggaaa aaagttattg tcatttgaat 360
 tcgctgagag cttcaacatt caatttggag cgtttggatg tattacggga c 411

<210> 19327
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19327

ttctttatcct taacacatat ccaacttatt acatcacaac agattaatta ttaatatcta 60
 aatttagttt ctgttataat tttaattaaa atatttaatt acataattag tgaaaaaacac 120
 ggagctataa tcttttcatc atgattttct ttaatctttg atattttttt ttcaattttt 180
 atgcttttca ttattattca gtctatccta tttttcttta tttaatatct tccttgataa 240
 tcttaccatcc ttataatatt atactctatc atttttatat ctaaatagaa tcataataat 300
 ttgtttaaca aaaaaattct tatattataa ctcaagct antatgtgaa agatgaatac 360
 aaaatataat gtatgtattc 380

<210> 19328
 <211> 205
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19328

ntaattaagt gtatcacttt tgttattatc atcatgcctt tgttttgta acttgaagtt 60
 attttttttt tttaaatacc tgagggtcaat atccaagata tactaaatta ctaatataga 120
 tatacccaaa cacacatgaa gctatctgat ttgttcactc agtttgtccc ccctgttatg 180
 gatgcataat agagggggggg agggg 205

<210> 19329
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 19329

agcttcctct ttaagcttct tatccaagcc actctcttgg tggatgaagct tctccttcca 60
 tgacttattc tctagcggat gacgtctcct ctaacctctt ctcttttctc tttcgctgca 120
 attccatggc taataatcac cattgaagga ccttattgaa gctcaaagat ccagcctcca 180
 tagaagcttc ataagcaagc ttccaacaag tggatcaga gcacaagagc ttcaagtagg 240
 tgctccttaa acctccacta attttcagct ttactttctc ctccattgtt gttgcttcgt 300
 ttctctccat gtatctctc acgtgtcttg tgctgaatgt tgtaacataa tttttagaag 360

ttccaccgat tagcttgcta taaagctaga tt 392

<210> 19330
<211> 394
<212> DNA
<213> Glycine max

<400> 19330

tgtcaaagct gacaatatct tcagatatgt ggacaccggg aatctaatac tgacttccca 60
gtaggttcaa acgtgactca ggtgtttgtt gatcaactac cgtgactaaa cacccttggc 120
atagcttttg ctcgcataga ttttgcacca tagggtttga acgtcccca cactcaccct 180
cgcggcactg agatccttat agtccttgag ggtactcttt atgttggatt tgtgacttcc 240
aatcaagatg gaaatcgctt cttcaccaaa gtgctgaaca agggatgatgt gtttgtgttc 300
ccaattggtc tgattcattt ccaaatgaat atgggaaatg ggaatgctgt tgccattgct 360
ggccttagca gtcaaaatcc aggagctatc acta 394

<210> 19331
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19331

agctttagt ttattcgaac gacaataaca tttcactcgg aagtccgatt gagtcccgta 60
atatatcgag acgctcgaac tttaaaaccg aagctcgtag cagatttgaa cgacaatgac 120
atttcactcg gaagtcctat tgagtcccg aatatatcga gacgctcgaa atttagaatc 180
gaagctcgta gaaaatacga acaacagtaa cttttcactc ggaagtccga ttgagtcccg 240
taatatatcg agacactcaa aattttaaac ccaagctctc aganacttct aacgacaata 300
acttttcact cggaaggccg attgagtccc gtaatatac gagacgctcg aaatttaaaa 360
ccgaagctcg tagcaaattc gaacgacaat aacatttc 398

<210> 19332
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 19332

ntgggtnttaa atttcgagcg tctcgatata ttacgggact caatcgggtct tccgagtga 60
 aagttattgt cgtagaatt agctgcgagc ttcgggttta aatttcgagc gtctcgatat 120
 attacgggac tcaatcggac ttccgagtga aatgttattg tcgttcgaat ttgctacgag 180
 cttcgggtttt aaatttcgag cgtctcgata tgttacggga ctcatcgga cttccgagtg 240
 aaatgttatt gtcgtagca tttgctgtga gcttcgggtt taaaattcga gcgtcacgat 300
 atattacggg actcaatcag acttccgagt gaaatgttat tgcgtagc atatgctgcg 360
 agcttcggta ttaatatattg agcgtcttga tatattacga ggactcatcg gacttccgag 420
 tgaaatgtat tgcggtcaa attgctcgag cttcgggtta attcgagc 468

<210> 19333
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 19333
 agctttcaat gtttataaaa accaaaaaac tttggaaagc ttttggcaaa aggaagaaga 60
 agaagaagtt caaagagact cagaaatcaa tgtggaaaac ttgcttgtga aaagaatgaa 120
 ttggaaaaga ttgattgata gaatgaatga atgaaaatgc aaaacaaagt cttgctttta 180
 tagactcttc atgtcttgtc aagaagacca tttagaagag ttataaattt tagaaaaact 240
 taaaactaat ttgaaaaagt caaaaacctt ttgaatagtt acatcttttg atttattcag 300
 aaacaatcac tggtaatcga ttaccaaact actgtaatcg attacacaag gcttttatgt 360
 gaaaggatgt gactcttcac attcgaattt gaatttcaat gttcaaaggc actggtaatc 420
 gattacaaaa ac 432

<210> 19334
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19334

ntaatggctt agtgaggatg gagagggtga agtaaggaag caagtagagt tggatatttc 60

cattggaaag tacaatgata aggtgctntg tgatgttggt cctatggagg ccagccactt 120
 actcttgtgg agaccatggc aatttgataa gagggctaata catgatgggt tcaccaacaa 180
 gatctctttc acgcatcaag gcaaaaagat agtgctcaaa ccgttgagtc cacaagaagt 240
 gtgtgaagat caaagaanaa tgagagagaa aattcttcaa gaaaagagag aataaganna 300
 agagagccaa acacttgaga gttcataaag tgaggacaaa aagagggaaa cacaagagag 360
 gaaaaagatg agtgaaacat ttgaagtgaag ggagaattnt ctagctacaa aaggagagat 420
 c 421

<210> 19335
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19335

agcttctttg agataacttc attgagaagc tagagcttag ctacacatcc ctctaataac 60
 taagctcacc tccttgagaa gcttccttga gaagattcat aaagaagcta gagtttagct 120
 acacacacct ctctaatagc taagctcacc tccttgagat gagaagctag agcttagcta 180
 cacaccccct ataatagcta agctcacccc cattccaaaa atacatgaaa atacaaaaaa 240
 aagtccttac taaaagact actcaaatg ccctgaaata caaggctaaa accctatact 300
 actagaatgg ccaaaataca aggcccaaaa gaaggaanaa cctattctaa tatttacaaa 360
 gaagagtga tccaaccttg acccatgggc tcaaaaatct accct 405

<210> 19336
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19336

gtangattat ggngtaccca tcacatgtgg tactaggtgg cggtcgggcg atggtgcaca 60
 acaagttttc cacatccaca atgcgcgcac aaaccaccca tcccttggtg cccacctcca 120
 actgagctca cgtactccca cgtagcccat atcctcgttt ctctcaacac cgggtcccca 180
 tcaatcctcc gaagcttccc ccaacatcaa agcaaaaactg cattcaaacc gcacaagcta 240

tcacatccaa gcaaaacaga gcaaaggcag aaaactctgc caaaacacca accaaatcac 300
agcttttctc acttaaagac cccagtaaca attccttcga tccaattcgt taaccgttgg 360
atcgactcga aaattttact gganatcttt cgtacttaaa cctgcatttt gaccgttggg 420
atctactagc anacatccag aactcattct acattactc 459

<210> 19337
<211> 292
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19337

agcttcaaca ttcttagtct ttacctgctt aactaacact ttactcttca cgccaaagtt 60
aatctagaat tgtgaccttt tgtagttct ttcacctttt cattttaata gttaatatgc 120
tttattctgt ttctcagata gatcaactag tcgccagatc caaagaaagt ataagaagat 180
cgttcataac aagccatatg tatatgtgtt aaggttttct ttccagtttt gcagtctgtc 240
tttttctttc tcaagcttgt gaatcaagtn tgttctgtgc gactatgtac ta 292

<210> 19338
<211> 446
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19338

ttcttttctt cactggttct tggtatacaa tttgcactat tntataatta tagaaaacag 60
tacgtgagag atcaaagtca gattccaagg tggccatgct aataattgaa acatttaagt 120
acttaacacc ttagcaaaca tgaccagaaa agggctttga tttaaattct tttcatgcc 180
tattttaagt gattttccct aacttgcaat atgccccgag aacccctta tatgaattct 240
acttcttaat cctatcatat tntgagttgt tttaaacttc tatttttctt attaaataat 300
gtaatggtgc agcctanaaa ggtaatgtcg tttgaggacg canagcaaag agcatgccag 360
tggaanaagg caattgaagg actccaaaac cgttgaattt attctgggtt tgtgaacata 420
ttcttttaga tatectctta ttgttc 446

<210> 19339

<211> 397
 <212> DNA
 <213> Glycine max

<400> 19339

agcttggtccg ttggatgcct acccattacc cattagaaat agactagtag atagggcagc 60
 aagaccctgc ctacttagct tcttagatgc atactcaggg tacaaccaa tacggatgca 120
 tccacaagat gaggagaaaa caaacttcat aacctagtcg tctaactatt gctatcagat 180
 tatgccattc ggccataaaaa aggctagctc cacttaccag cacctaattg acatgatatt 240
 caaagaacaa attggaaaga aaatggaggt atatgttgac aacatgggtg taaagtctaa 300
 tgatgcagaa tcacacacct atgactcgga agatatattt gcaaagatct gaaagcataa 360
 catgtaactc aattcgaaga agtgtatggt tggggta 397

<210> 19340
 <211> 158
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19340

gttgaacaat gaactattct tggaagagaa agtattgaac attttctctc tataaagatg 60
 aacaacaatg aatgatcaag ttctgtatgt ctcgntttgt aaacaagttg ttattgaaat 120
 tcatgccatg gtcacatatt tatactcaat tgatgact 158

<210> 19341
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19341

agcttttcga ttcattctat gtaccgtag tggccacat tgtgtttcgt gcattattat 60
 tctcgttttg tttacttttt ataccccctc ttgacgtgct taagccattt tacttaagtc 120
 atttctcgct taacttaaaa ataaaataaa ttttcaccga acgtttgaat tgtattatcc 180
 gttaacttcg gttaaaataa attccgaccg ttcggtcatg ccgtaaccac gttggaaatc 240
 aaaangaggt cttctaatac atatatatct atctcncnnn gacatctttt agtaaaataa 300

agcggaaaat caatcggaca ttttctcttt gggatttctc attcttaatc gaattgatta 360
ataactaaag tgaaactaat gctaaaatca actcgcctag 400

<210> 19342
<211> 382
<212> DNA
<213> Glycine max

<400> 19342

agcttggttat atgcacaatt aaggtacaca cttttgatat tcttttgctc agacttggca 60
cactattcca gagcgcctat ttogggaaaa aagccctaga agcagtaaga ggagcagctt 120
gagcattgaa gcctatgttt tggaatttgt gagagattac tgagctggat agtgagtgtg 180
agatgttgag aagaggagga cgaatcccc atcttgtgta aggaactatc attctctgct 240
tttagtctca tttattgata cggttgcttt gtaatggctg gctaaacacc ctagttgggg 300
atctatgatg aacaactgat gtcaatactt actatctaac tgagtatata ttgtgagtgc 360
agtgcttcct ctcatgctta at 382

<210> 19343
<211> 463
<212> DNA
<213> Glycine max

<400> 19343

tgagctatca gaagacttgc ttattcattt agttctaatt tatctacctt catagcttag 60
tcagcttaag atctcttata acggtcggaa ggagaaatgg tctcttaatg agttcatttc 120
atactgcgtg caagaagagg aaagactaaa gtaagaaacg actgaaagtg ctcatgttgt 180
gagtacctct aaagacaagg gcaaaagata aaggactgat gagcccaaca atgaagctgc 240
ttagggctca ggacaaaata taaaaaatca aggtgacaac tatttctttt gcagtaagcc 300
tgacatgtc tagaagcaat gtaaatgtac catatatcat gcttggcgtg caaagagagg 360
tatgtttctt actatggtat gatctgaggt caatttacct tcagtaccta caaacacttg 420
gcggtagact ctggtgccct actaacatca gcgtttcaat gca 463

<210> 19344
<211> 203
<212> DNA

<213> Glycine max

<400> 19344

gcctcgctcg tttcattatt cctagctata atagagtgcg gcaactgaaac atattctatc 60
tatctatgca gagtaatgcc catgaccata gccctataac gacttgtggg aatgcttgga 120
ctctacctag tacctacagc acaactgcta ctgacctgct aaccatataa agcagacctt 180
ccattggctg aacataccat gca 203

<210> 19345

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19345

tataaaacta agcctgctcc ctaggcagga ccatcaacca tctagcaatt cttcattcca 60
tgtagcttc ctttctccct ttctttctta tacatagtct tatgggtgtac cctgggcat 120
ctttgatatt ccttttatct gcacccctgg cttctgtatt tggacctctg gtttgtgttc 180
tctgttaact gccccttggt cctcagcttt tgtaccagta ttacgtatgg tggataaaaa 240
attacaacaa agggagcata atgtagaatg ttcttattat gtcgtagttt tgaactgcat 300
aaagagcttt cntaagagtg tatattatgc taatgaaaaa cgatacgttc actgcacatt 360
caaaaatcat ttatgttaat ctctaagtat gcattataat attcataatt 410

<210> 19346

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19346

ttatcttaga tcttccatgc ccagctgata atgtcaatcc tgatactgct agaggatctg 60
gtccccacaa agacaaatct cacagttacc taggggtggt ggctagagat gaaataccaa 120
ttgtccactc caattggaat cttgtctcgg acaatctaaa gaacctaat tacgaagaca 180
ttttggtgta tccttttaac acgggtgtatc tttatcattg cctttataac acatttttac 240
atcactaatt aagttggtgt tatttaacac atttggtgta tagcagaaat ntgacatccc 300

tgaacgtgac aatgcgaaac aaaaagggtca tgtctatagt ggcaactaca tggagggaat 360
ttaaagtcttc gttgacatct 380

<210> 19347
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19347

ntgtctttct tagtactcat aattctacat taattatttt tcttgatgca tgattaacaa 60
aactttaaca tgcagaattg ataagaggta aatgtcattg caacaatact atgtggtaca 120
ttcttagtat gatcaccctt gcagaacat aaagattgtg aataacaagt caacatcact 180
tagtgccatg gcaatggtaa agccaattac gccatttcct taggcctccc acaaagctct 240
taattctata tatatttata aaaaaataaa tcaaatttaa attatcaggt aatatattct 300
attgcattat ctattattat ttgcgtagcc agattataaa attttaatta cacatagata 360
tattataaat catttgagaa gtttataatt catttgacaa ttatagaaaa attagtttcc 420
atctacttta aatcttgtaa aatcacactt aatgaatata atgattcaat ttata 475

<210> 19348
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19348

tagcttggtg atctttgctg ctggttaaca ctgagcttgc ccaccctacc attactaagc 60
atttcactgc taatagaaga tgcaatggat agctttttct tgcattggtga atagctatca 120
aagttcatgt ccacattccc ccagtcctt atttttgggg agcttggtga tcttgctttt 180
gcttttgctg attctgttgc aaccatgtat gctgganttgc catgatagct taattatgag 240
tggtcctctc cactgaaca ctgcctccta tgaggaaaag atcttcttga accaagtatt 300
ggagaatcca atccttcaac tggattttgc ctctgaatat tacttctcag ctttaagttgc 360
cttctccat attcctcccc aac 383

<210> 19349

<211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19349

tagcattagc atgtgttgac actggatcac taatcattgt gtacgtgttt gttacttttag 60
 tggatcctat caaagaacct ccgcttataa ctacaaacat agttctgtct gtttttgttg 120
 tgtattgtca tgtggacaaa gttccatgcc atgtttgaga catctaagat tggcgtcttg 180
 cctttgcccc gtattatttt ttgcaacatc ttcctttctt aaccttgtea ttacctcgaa 240
 attntaatat ggcaacttac tcttgtggaa aataattttt aagaattaat ataacacttt 300
 aaaattaaat ttagaatatt aaaaaaatat aaaacataga tataattctt taggtgctat 360
 tgatactttt ctctgttag aattaaaatc gtacttcagt aatccacata ataaagatat 420
 acatcataaa attacatcaa ttatcatagt gaaactct 458

<210> 19350
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19350

agcttttcaa ttaatctttg gctagctaca ttagtgcaat taccctatc aataatcaaa 60
 gagcatattt tccccatgac catgcaccta gaatgaaaaa tgttctccct ttaagtttca 120
 tctctatcct tacacacatt acccataac ctctaacca taaaaagatc accttccagg 180
 gggtgtacat cacattcatt ttcactctca ctagaagaac tagaccagct agaagaagat 240
 aaactaatga tatccccatt acccaacaca accatagtcc ttttgctagg acattgngag 300
 gcattatgac cttttcccaa acacttanaa catttaatag aacttacttt tgaagaagta 360
 ggagtagggg tagaaccaca ccatactacg agagaggttc cctcttttac catttttaat 420
 atccc 425

<210> 19351
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19351

tcaatgatnt aacaatngac tnggtagaat tgcccacgtc atgggtgtca tgcactgccg 60
cattgccacg tggaaatgttg aaacttgaaa tttattatga aaatattgta ccctataata 120
acagcgtatg ctaattgaat tgttttaaaat taaattttga ttgtttatat aaaaaattat 180
cattacaaat ttttaaattt aaatccattc aaaataaaaa taaaaaatta ctcaaaaaac 240
taaaatttaa aataaattat ttctttttta tttttaaaat caaaccaaat cgtaacactt 300
atattaatat ttattatttt aattntatgt gtgtattatt ntaattttat aatattntta 360
tgatattatg tatatgaaat ttatataata tatatttttt tcaaataact ttctaaagat 420
atanntttat ttanatagat gaaaatttac atatctntat catanaaggg ttaatatatt 480

<210> 19352
<211> 309
<212> DNA
<213> Glycine max

<400> 19352
agtttcatgt ttattcaaga ttgattcaaa gaagttctaa tgattacaaa tgtgatgaca 60
aaaagctcac aggttaataa cacttcatga taacaaagat gatgatctca agaatcaaag 120
aatgagttca agatgttcaa gattgaatca agaacatttc aaggttcaag aggaaatttg 180
atttctagat tcaagaatca agagaagact tagtcaagat aagtatgaaa acatgttttc 240
aaaaactgag taacacatgg attattctca aaacctgggt accaaagagt ttttactctc 300
tggtaatcg 309

<210> 19353
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19353

tctcttagac cttaggcaaa ccttcaactc atcctttttt atttttctgt ctacttgaga 60
taggtccatt tcctctctcc ggagcttaaa ctcgctgcta ctgccccaca aagcccctcg 120
gaatttggtt cggccatggt cttccctacg agcccttttg gtctcttggt ccaaggcctt 180

ggtaggttagct atattttacat ctctcagttc ggcattctct tttcggatct taagagttgc 240
 tgatttgaac ctttctttga ctatttgggc ttgctcgagt tctaccctaa ggacctgcac 300
 ctcttcgtct tccttcggtg cctcaacttc ctccccctta gtggttctca aactcgggag 360
 ccaatccaaa ccttgatatgt gggctntcta ccacttacgg tagccgtcga tgggcctgat 420
 gatactgcct ctgagttc 438

<210> 19354
 <211> 404
 <212> DNA
 <213> Glycine max
 <400> 19354

agcttgaatt tgaacaacag aagctctcga gaaattcaaa tggtcataac ttatcacacg 60
 aaagactgat tcaggcgcat aatatatcga gacgctcgaa attgaacaac ggaagctctc 120
 gagaaattca aatggtcata acttttcaaa cggaagtccg attctggcgc ataatatatc 180
 gagaagcttg aaattgaaca acagaagctc tcgagaaatt caaatgggtca taacttatca 240
 cacggaagtc cgattcaggc gcataatata tcgagacgct cgaaattgca caacggaagc 300
 tctcgagaaa ttcaaatggt cataactttt cacacgaaag tccgattcag gtgcataata 360
 tatcgagaag ctcgaaattg aacaacgaaa gctctcgaga aatt 404

<210> 19355
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19355

tctggatata ttatgcacct gaatcttact tccgtttgaa aatctatgac catttgaatt 60
 tctcgagaga ttccgttggt caattccaac cttctcgata tactatccgc cggaatcgga 120
 cttccgtgtg acaagttatg accatttgaa tttctcgaga gcttccgttg ttcaatttcg 180
 agcgtctcga tatattatgc gcttgaatcg gacttccgtg tgataagtta tgaccatttg 240
 aatttctcaa ctgcttccgt tgttcaattt caatcttctc gatataattat gcaccttaat 300
 cggactaccg tgtgaaaagt tatgaccatt tgaatttctc gagagcttcc gttgttcaat 360
 tccgaccttc tcgatatact atgcgccgga atcggacctn catgtgacaa gttatgacca 420

tttgaagttc tcgagagct

439

<210> 19356

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19356

agcttcatac tatgctttat taatggnggg cggaaggca aatgtcagt cctgctcaac 60

aattaatcca tttgatttct catggaaaga tctatctaca tatattgtaa ataatatctc 120

ccgttataga ttttctaagg ttaattcaac aatggaatca gctagcgcac gtgcattaaa 180

aaggatttga tgctctgaaa cctctattgc ccaagaaacc atccttctcg ccaaatacaag 240

tcggtgaaga atttgcgaa tggactaatc aattcacacc attatccggt gtgattggaa 300

atatagtcgt aagcgtcttg ttgccattac taaagcanaa actaccttct ctaatgatct 360

ttgaagttcg accccctgaa gt 382

<210> 19357

<211> 442

<212> DNA

<213> Glycine max

<400> 19357

tttctttcac aatcaatttg tctactgact aacaatttta aatgcatgtt cacattcttg 60

ttctttctta gtctaacata cacacttgct caaactcatg ataagaaaca caaactccat 120

cacaatcatg cacttaattt aaaataaaag catataacta ttttcacaaa aagataaaaa 180

gtgttttact accatgtcat caaaaacaag tcaaactatt caaaatgctt caggataagc 240

aaactaacta ccataaata aaactagcag tgtatgtaga cctaaaggaa atattgtatg 300

aaaaccacaaa ttgtaataat aataataaat caaaaagcaa aaagtattat caggaaatcaa 360

aattcatgtg actgggtcttg gatatcctgt gcctgaacat cctccttata tgtcaaatgc 420

aatactggag tagtcggagg ag 442

<210> 19358

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19358

agcttgagaa tacagaatgt tatggttgaa ataagcaaga taaatattgg aagtttatct 60
agataattac ctgacttaca tgtgtgattc taaatctaata cattatatgt agaagcttat 120
ctcagataaaa ccttcaatct ctttttatgt tcttttagtga ggaactggta aagattcaat 180
gctttgatac aatctgggtga gtgagtgtcc gagggtagat aattactgcc atgtatttat 240
gttactcttg catatacacc actacactca gtctaataca cccttagctt anggtacaat 300
anaagagtga ttcctagtgc cttagttttt cgaanatata ttanattagc actaggaaaa 360
anatactgta tggagatctt catatcttat g 391

<210> 19359

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19359

gtcggcagaa ctaacaatct ccattaatca atttattatt atttacttgt ccttagattg 60
gaatttttaa aataagatca atgctttgag gaattatttt atatttcata atgtggaagc 120
atttaaacia aattaaaatt ttattttgat gtgaattata gcaatgggat caacacaaat 180
gaattactgt aggacaagag aattagtcac ttacattgca tgataaagaa aactagataa 240
aataacaaac aaaatgctgt tgataatacg aaagttcacg agaccagtgc tactaatagt 300
tagtgggggt gtgtatgttt ttccctaaac cctaaagaca cataagatgt gtaacaaacc 360
aactaagacc agtatagaac aagcagggtt ggtttaacag catcaaataa tctatcanta 420
aaatgctatt gct 433

<210> 19360

<211> 404

<212> DNA

<213> Glycine max

<400> 19360

agcttatctt tcaactcctg aggattaggt ctcaagagtg caaatatgga taatgtacac 60

tagttctccc cctcctacaa aattattggg gtctttaaaa acgtgtttaa agtatcctta 120
tcaaacttca ctaagtgacc tctcaccctc acctgcttag atgatttatc ctcgggggtca 180
tagaggttgg cataaaactc cttcacaata gcaatgtcta tggatttgtt agaaaaatca 240
gtcagcttct catcccaatg gcgtctctcg agttcctcct tgaactcgtc aaactatgtg 300
ttatagacta ccacattcct ctctggtaat agctttcgag gcaccacaat gtcagtgtac 360
ctctccaag cctcttatga tgtgaacctg gatctatcaa atat 404

<210> 19361
<211> 435
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19361

caaacaactt attgtaatcg attacaacaa cttgttatcg attaataaga agttttttcc 60
tttaaagaaa tttttctaac ttagaaactt ttcttcacac aaaccatggg gatgcacaat 120
gcaatataga tatcaaagt actaagattc aacaaccaag ataacaacca atacaaatgc 180
cactcaaggg agctgagcat gtaaaagcca aaacttcttc aaacttttcc ttgagcttca 240
agcttttagc ttaggttgtt tacaatgttg cttatgttgt tccccctatc tctaactatg 300
gtggccatgg gggaagtgtt gttgtggccc tatgggtggag ctaaagtgtac ttactaaaat 360
ctggagcagg ctaacgttag gtttgaccgt cgtctanatg ggctccatga tttcctatgt 420
canactagca agtat 435

<210> 19362
<211> 428
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19362

ctcgagctcg cgcccgctg atactctaca ctgcacctgc cgcattcagc ttatataaat 60
cttaanattc agatagtcta atgaaaaata aactttccac ttgatatcgg gtatcaagaa 120
ttaaaattta aatcacatta aaatgaaact tgagaaacaa aatatgaaag caagaagtat 180
aaataagaaa taaattgaat atttacctat atatgtgtaa atatttctgt aaaagatcaa 240

aaatataata ctttaatatata tgggttaaaaa tataacaagaa tgtatagcat tggaacaatt 300
 gtttaagtta tttgatatga taaacatatt gtttttactt tctgtaaatc atgatccata 360
 acgttcatgt tatgaatacc cataaccag tgaaaacaat attttcatcg tattgcaagc 420
 agcgccaa 428

<210> 19363
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 19363

ctacgcttta accgtcgtgt tcaccgtacg tgcataatttc tcattcgtct ctgaaatata 60
 tcaggccatt ggagccatat acccttttct taaaaaatta aaggaacaga agtccatgat 120
 agacacatgc atgtgtcaaa aatcattaat tcgagcaagg atgtacacta ataaaccctg 180
 gaattctcaa atacaatatt gacgcttgta ttaaaagaaa tatagtacca tatgtaactc 240
 ttacgtgaca agtactaatt taggagaacg tatacgaaat catcatttcc aaagcctatt 300
 gtacatatat tatgtaccat aacaaatggt agcattgcaa ctttctttca tctcaatcca 360
 aaatcgtgaa aggaaagtgg ggcatataat ataatacatg agaaaaaaag tgtatagagg 420
 atgagaatga aatctctgaa a 441

<210> 19364
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19364

tctatcttgt tttgtttact tcaaattatt atcttctgct tcaaagcttc ttcacgacat 60
 tcttctcttt cttttgcaat ttttctcctg agatctgata tttcttctac atttgcttat 120
 gtttccttaa ctaacgaagc aattctcagc tttagttttt cattctcctc aatgtaccaa 180
 accatatcac tcccctctgt agaaaatggt gttcacatca tcagacaata tcttctcctc 240
 aatagaactt ggaatccact taataaatct acaataccta gtatgctaca acacagaaca 300
 taaataaact gagacgacat tngcttatgt tccaataggg gcaactacaa caacccttcc 360
 tcgagttctt ggtagtgtgt gatgacgacc cacacattgc actc 404

<210> 19365
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19365

ttccctcact cctacaatat ttctacatca tccacacttc ctatatccca aaagccaaaa 60
 aaaaaaacat caaaaccttg aaagagaaca cttttatgaa actttggaaa gtgcacatag 120
 aagaaaacaa aattggaaga taagagggga aagaggaggg cctcttacct ctaaaatcaa 180
 tccaaattaa aaaaaaaaaag aaaaaaagaa aaaaagctca acaacaaggt cttttgtgtg 240
 agggtttcca tgtcttgacac tctctaata tggattgtct cagagaggaa gaagagagt 300
 aaatgagagt attttgtgtt gtggttcagt ccanacactc atctcaatcc aaacactcta 360
 aaacttatta tccacacctt anacaaggtt ttgcataca taattgtaat catatataa 420
 aacatcacia gtcacata 437

<210> 19366
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 19366

agctttaaaa ttgtaacttt ttaaattaga aaatatgatt aaagataact ttaaaagt 60
 gaaccctaaa atcttttttag ttacttttaa cacttttttt tataaaacct atgcttaaga 120
 aaaaataata agaaaatttt aaaccctaaa ccccaaaaga tttttttttt ataaaaagt 180
 tgaaagtaac aaaaaatatt ttagggttta aacttctaaa tgtatcttta atcatat 240
 gtaatttaaa aagttacaat tttaaaattt ttaaaaaaat agtcaaggac taatttgaaa 300
 aaataaaaaa taattaatga gaagatgaca tataatttga tagattaataa aattaccaat 360
 atcataaccc ctaatatatt tggaacacc atagaaactc 400

<210> 19367
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19367

```

tgatcaaaac aattctctaa ccattccaat cctttcttat catacaattg cttattcaaa   60
tcattctcaa aacttcattt cataccaaat aatccactgc atatcatttt caatcaattc  120
attgttcaaa cacgcttttg gtacaagtaa acaactcaaa gtgttgaaat tttaaataaa  180
tgaaatataa aataactgaa acataaaaaac tgaaattaaa ataactgaac ataaatcata  240
aaataattga aaataaacta aaatgttcaa gatgcacaaa tttaaattgtc atgttcatca  300
tgtggctagt cttcatthaag atccagtgcg ggagctacta atgaatcctg gatagggtgc  360
tttggctccg tgactgggtg agatggctgg gtctcctcac gaggagggtgc agaggatggc  420
tcangtatct gatctg                                     436

```

<210> 19368
<211> 326
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19368

```

agcttgattt ataaaactgc agttttattt ttaaaaaaat tatgaggcga agttagaaaa   60
aaaaaaaggg ttgagagtaa catatcttta taattgtccc gtcccaccgt aatagagaaa  120
attttcgtag tgaaattaaa tatgatctca acaaccgtgc ataattaata tatcattttt  180
ctcattagaa ttgaacagaa aataatgatg ttatttgta ctttctaaat tgagggtata  240
atagcatcaa tgcctaagat aaacgggtgac aatatcaaat ctatcaatca atcaaaangt  300
taaagggtat gtattttcta ctccat                                     326

```

<210> 19369
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19369

```

gacactatga aactccgctg ctcaagggtgc catgcttttt ttaattcctt ttactaatat   60
gcttttaata gttgggggtg tgactattag cccacgcaat ttttttcaat tccctcatac  120
ttttgcatct tgctaacaga gagagaatgg tgttttgatg tatcatcctc aattatttgg  180

```

ttaatgacaa tctcatttac ctaggcctta tattttattg cttgctatca tctctctatt 240
 atatccacga ggacgatggt actaatatca gtttcattat ttaaacacaa atagattgac 300
 agtgcatagg acattatata taactatttt ttgtcttaat ttttatgttt ttatgggatg 360
 cactcatcta aaaaacacac tccaaaaatt aaagggataa catcaacatt aatnngttgt 420
 actattttga tggtcacagt ggca 444

<210> 19370
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19370

agcttcaatg gcttagtgag gatggagagg tgcaagtaag gaagcaagtg gagttggata 60
 tttccattgg aaagtacaat gataagggtgc tttgtgatgt tggtcatatg gaggccagcc 120
 acttactctt ggggagacca tggcaatttg ataagagggc taatcatgat ggtttcacca 180
 acaagatctc tttcacgcat caaggcaaaa agatagtgtt caaaccattg agtccacaag 240
 aaatgtgtga ggatcaaaga aaaatgagag agaaaattct tcaagacaag agagaaaaag 300
 aaaaagagag ccaaacactt gagagttcaa aaagtaagga caaaaagagg gaaacacaag 360
 acaggaaaaa gatgagtga aca 383

<210> 19371
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19371

ntgcggatgt ggtcttcgct agtgaaagga tctatgttgg tccgaaaaga ggcaaatttg 60
 atcatcctac taggacgact gagaaaattg gggcaaatga agaggggtgag aaagaggag 120
 aaacccatgc tgtgactgcc attcctatac ggccaagttt cccaccaaac ccaacaatgt 180
 cattactcag tcaataacaa acctcctcct taccaccac ccagttatcc acaaaggcca 240
 tcctaaatc aaccacaaag cctgtctacc gcacttccaa tgacgaagac cacctttagc 300
 acaaaccaaa aaaacaccaa caaaaaggaa ttttgcagca aaaagcctgt aggggttcacc 360

ccaaattccg ttgtcatatg ctaaacttga tcccatatcc actcaataat tcaatggtag 420
ccataac 427

<210> 19372
<211> 398
<212> DNA
<213> Glycine max

<400> 19372

gttgcattgta agctgggtgc tattacgata gccgactact tggcggacac tatggcctgt 60
tatcatcata tgcagtagaa atattagtct tgtatattat caatcgctct cattcagtag 120
tgcgtgggtcc tctagagggtg agtcacatat tccatcagta atatttttgc aacctttttt 180
ttaatatact tacagaataa aaccattgaa ctgctactac tagcagggtgc tatacatatt 240
tgtggactac tacagctcat ttgattgcga ccataattat gttagtatat ggggtccaaa 300
atccttatcc tctcttccag aaattgttgg taagtattgc aatgtgtaag caactgcaga 360
ttttcaatct tcagtccttg atatcccaac tcccttgc 398

<210> 19373
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19373

tctgtttcaa cgaaatgggt aacaggactg atttatattta agtgaataaa ctgttgTTTT 60
gtaatttgaa gccacacaat acttcaaaag ggtaaatgaa taaagattta tcaccctttt 120
tgaatcactt tcacgtcccc tttttgacct tacatatttg ctttgacttt tacgtacgct 180
gcagcctgtt aacagttgct acttttaagc atgcatggct atggccaact aaatcaattc 240
atttcagata tcattggaat gaatggcacg attatgtcac catttactgt atttacaagg 300
atatggcaaa tgcaaaacaa tggcactgtg tggccaaagg gaactcgttt ggatgggaaa 360
aaacaggttt agtgactctt agttgaaagg ctcaacattt atgactnttt atgtagattt 420
tgTTTTgcat gg 432

<210> 19374
<211> 398

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19374

```
tttcatgcaa gctttatcaa ggtcaggggg gattttccat ttcttgaacc ttgatcttgt 60
tatctttaga agctaggctt ctttgcatta gggatgtgca aaaaaatcgg gtcggatcga 120
accagattgc aactgactcg actcgaacca gttgcgaaaa aaaacttgcc ccattttata 180
gtcagtttgg ttcgaccgca cccgttttgg caaaaaaaat tagtgacctg aacttgaact 240
gcattgctca ctctcatcat cctacgatct ttntttctgt gcaacttcat ttgtttaaga 300
aggggaattgt ggtttcgaag ttgtacgacg aagcgattat ggtggatctg aaggaaacgc 360
tgagatacaa tntctttctc ggaaccttcc ccggaatg 398
```

<210> 19375
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19375

```
tgttcttgat tntttctaag ttctttatct agtcttttta caanatactn gnccttcatt 60
taactgtctt tgggcttggc ggccacgctc aacaaagtat ttctgacacc tactgtacgt 120
tgatttgacc aacgctgtta tgggaatggt gcgacaatcc ttcaaaacct tattgataca 180
ttctaagagg ttggttgctc tgcggccata ccgaagtcct tctctatcat aagtcacgt 240
ccatttttct tttgaaatgt gatcaatcca tgttgctatg gctggactca gttcacgaaa 300
tttttctaga ttttgataaa aaatgtgctt gcaaggagtg taggctgcat caaattagtt 360
atgaataaga attttaagta tatattaaac ttaaataaac ttgaccatga tatatgaaat 420
cttacccaa 429
```

<210> 19376
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19376

agcttttaac ttttctgttg ngaaaatttc ccataattgt tattaatcac ttttcaaata 60
tacttataac taaaaaaaac attaatTTTT tttttatatac ttagaaccac cctcaattca 120
atccatgagg caggtacaaa ctaattaaga tttggtatgg cagcttctcc ttactagtga 180
aagacacatg gcctttttaa accaacgagc atggatgcat ggattccaca gaaagacata 240
tgtacaaaaa ctcaaattat cgaatggcct tacatacaga ccatagataa gggggataca 300
taacttctct gctctgaaat gggccaaaat ctatttggag atcggttgca gaactgctct 360
atttctcat tcaccatcct tgcggccatt cacaat 396

<210> 19377
<211> 384
<212> DNA
<213> Glycine max

<400> 19377

agtttgaact ttgaatcttg attcttgatt cttgaaatca aatttcctct tgaaccttga 60
agtgttcttg attcaatctt gaacatctta aacatcttga acatcttgaa ctcatctctt 120
gattatcatg aattgacctt tgatcttttt gtcatcacct ttgttatcat caaaacatct 180
ttgaatcaat cttgattcat catgaagctt tgcttctaca catcccaaata ataatgctta 240
gcatcacttt taattttatac attctgagct ttagatgcta agggaggaat aacagaagct 300
accaattaat tcacaatatt acgaaaccaa ggagtgggtga aggaatcaga aatcttataa 360
agaatgtaca aatgggtcatc cgga 384

<210> 19378
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19378

tattatgtgt tgaattgtaa gatatgtgta tattgagttt ntgtacacat tgagttgtga 60
gctatgaact gtacaatcaa atgacagtaa gaccctttta ggggtgacggg ttaatgtgcg 120
ataagtattg tgatgagatt cattgtggga accaatgagt tgaatcactt tgaggcgcaa 180
cgggttaaag ttattttgag aacaattgat agaggattgt gttttgtata gttcatagat 240
aaagtttgtg tgttaaaatg ttttttctgg gttgaacctg aatcaggagg aaaaggccct 300

gacggaaaact tcagagtcta ggccttgggg gtaaatacac ccaattntag tgctccttta 360
 agcctctgcc gatcccatat ggttgagca ttntcacaaa atagcgtgac cctaactggt 420
 ctccctatga tttta 435

<210> 19379
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19379

agcttgtaat caagtgaggt ggagtggagt tgataattca gttagtgtag actggttttt 60
 ttctatttag gagggatgct acatgcttca attcagactt gatgtcgaag cagagtaatt 120
 ttggctcctt taaattaaaa ggggttcact ttggaaggaa aagtttaggt tctcaaccat 180
 ttgagtcaac agttgatatt atggtaaaat atatgcacaa ttggccaatt gcacattcat 240
 aacaaagtat ggatttggtta taacttataa cttatccctc acttttagatg ggtcgaatcc 300
 aagaggaaca tgcaatttaa tcaattgtat gttttgttta agtcaatatg cttaaagttt 360
 tttcaacttt tatccatgtg cattangctc ccctggac 398

<210> 19380
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19380

tataacactg caaaggtgat gagaatagtc ctcaaaattg ttattataat aacaaatttt 60
 ccttttcttt tattacatga ccaatcaaac tttagacaga aaatgttact aacactacta 120
 gttaattaat actatttaca taatttcaaa tcagggttaat actcagacaa ctataaaggt 180
 caagaaggac aatgaaggct tagaatatgc gttgaaatgg caatgaaggg aagagctggt 240
 tgtccaaatt aaagatggac taatcaccgg catcattgac ttgactgctc gaaaactctt 300
 ggatcaaaag gttgtcacia atgattctag tgattactta tggtagatca ccaggtaata 360
 atattctatg catgtccttt ntaattaatt caaagttgag taatgttaac ttctcctatt 420
 aattatatct tctacaaa 439

<210> 19381
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19381

agcttcttat tttcagaaga tgaagatgaa tccgtggcca catcatggac ttctctaagg 60
 acaatagcat cttttcttgc actgaattgt tgggagttgg aagcaatctt ctcaatcaga 120
 ttcttagcct caacaggagt catatcacca agagctccac cattggcagc atcaatcata 180
 ctcttttcca agttgctaag tccctcatag aaatattgca gaaggagttg ctcaaaaatc 240
 tgggtggtgag gacagcttgc acacaatttc ttgaatcttt cccagtactc atacaagctc 300
 tctccactaa gttgctgat gctgaaatg tcttttctga tggcagtggt cctagatgca 360
 nggaagaatt tctccaagaa caccctctt 389

<210> 19382
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 19382

tataaatcta agcttgcttc tcaatctccc cttttttgat gatgacaatt cttttatcaa 60
 gaaagcatat acaatttcta ttgttcgttc attcattcca agcttcccct ttgtcttgga 120
 gattatgcct aatttttttg aaatctaaaa ctttatcttt cttgatttct ctaaacctcg 180
 tttctctccc cttttggaaa catcaaaaag ccaaagtgcc caaaaaaaca aatataattt 240
 atccaggaag agaacacaaa accaatcata ataccagagc aatcaacatt catacataat 300
 tcaattatag tgtatttaat caaagaaaaa tatccaaaca aagaaaatca atccaaaacc 360
 ataaatatac caagtcagag gtcttatata tagccaaaat acacagcgta gaaattataa 420
 ctaagaaaat aaaactaagg gtctccaggc g 451

<210> 19383
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19383

```
agcttaatgt atccacaaga aaagaccatt acccgcttcc cttcatggat caaatgcttg 60
agagacttgc aaggcaatcc ttctactgtt tcttgacag atactcaggt tacaatcaga 120
ttacagtaga tcctcaggat caagaaaaaa cagcgtttac atgtcctttt ggtgtttttg 180
cttatcaccg catgttggtt ggtttatgta acgcccctgc tactttctaa agatgtatga 240
tggcaattnt tgatggcatg gtagagaaat gtatcgaagt ctttatggat gatttttcgg 300
tcttcggtgc atcttttgga aattgcttag caaatctaga gaaagtgtta cagcgttgtg 360
aagaatcta 369
```

<210> 19384
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19384

```
ntatcgtgag gttgaggaat ccaaggaatt ccgacgcttt gttgtttctc ctcacccaaa 60
gctacaattg caccctcctt cttccctttt tttgttaatt gtgtgaatga attagttaaa 120
ttgtcacagc tttttgtgtt aattgttctt ttattgttca aagtgaagta atttttggta 180
acttttaatt gtccgaaatc tcttaatctg aatatcttcc aagcaatttc tagttcttta 240
tagccaccag aaagtgaaac gtcaacaaat gtaatataat aacaataaaa ttattccacc 300
attagttacc attaccattt aacaataatg atagaaacat aaaaaattaa gactgattaa 360
tttttaattt aaagggttaa agtgaaaatt cataaaagtt taaagaccca aaacataatt 420
aatcctatct ttttcatatg 440
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<210> 19385
<211> 320
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19385

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ngcataaaga tatagatatg gggatagcat accttcaatg ctaaataagta cgatgaaatg 120
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gtaccacgta catttctctgt aacagctggt aaagtattct tgatactatg tgatgagtat 180
agagataata acgacgagct attatcagcc cattgcatga gataatatat aattatgcag 240
tatattttaat atcaccggg atatatagct gattaatact tttactgcta ccagagattt 300
ctttactaga acgctattaa 320

<210> 19386
<211> 408
<212> DNA
<213> Glycine max

<400> 19386

taatcaattg aaaattgacg gtgtgagatt ctctctgttt ctctactagg ggcaattttc 60
cttggcacc cttatcatgt tcaatttgtt ggtaagttaa ggtcttttaa tccaaaaaag 120
gaaacttggg taccatgtga gagtaatttg gataaatgaa aattgttttg gttgttatat 180
gcatgagtat ttogatgctt gtttgcaata atgtaatata caaaagtacc taccacatag 240
agagtgccta cgcaatttgg aatcaagaag tttcagattg tgtgattgca ttctctagca 300
ccaaagctat tgcattgaaa aattactgca taccctaaat tacttttaata agttgcaacc 360
aatattactt ggcaaaaaag tagtctaaag ctactctgtc atcatgga 408

<210> 19387
<211> 407
<212> DNA
<213> Glycine max

<400> 19387

tcaagcttct cccccaattt tctataaata gggggagaag tgaagtgaaa aagggttcag 60
ccccttaggc acttctctct ctttcgaatt tgcttggaag aattgggtct gtgaagaaaa 120
ttcaagccga ggcgctctcg aaacgtttcc gtaacgtttc cgtgagaaat ttcatgaagg 180
tttcgaccgc ttttcaagat tcatcgctcg gtctttgctt tcttcagact tcaacgggta 240
agtacctcaa accaagcttt tcaattcatt ctatgtaccc atgggtgggtcc acatttcgtt 300
tcatgtatat ttattccctt tttcatttac tttttataacc cccttttgac gtgcttaagc 360
catttattta aggcatttct cgcttaatgt acaaatagaa taaattc 407

<210> 19388
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 19388

ttagcttgga gggattgatg gggacccggt gttgagagga atcaggataa gggctacgtg 60
 ggactacgtg agctcagttg aagggtgggca acttgggatg gtggatttat gtgtgatttg 120
 tggatgtgga gagtcgactt gcaccatcgc ccgatagcca cctagtacca catatgacgg 180
 gtaccccata atcctacaag cttgaagtga gaaagtgtgg aagagtcagt cttcctactt 240
 ttattcgttg accacagagt ggtacttgga gatatgtcgc gggggtcagg agaccttggg 300
 gacgtcaggt ggggtgctat tgcccaaac caagcttgac caatcccgac ccaacccggg 360
 catagtcagt cagtgagaac ctgtgacgta cctaaacagg c 401

<210> 19389
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 19389

tgcttctaca gacttatccc aatgggtcttt ttttactatt agcttgctca ctagcttttc 60
 actttcatTT gcttttgacc ttgttacatc agcacacttt attctttttt ttaacataaa 120
 acttatttgt tgtgtgtgtt gatgctttac ctttttcttt gcateccaat tagttctact 180
 cccccaaatt tggggtaaat ttgccttgaa ccatatgctc tcctagaatc taagcaaggt 240
 atcaggagat acttatttaa gttcaggggtt caaatTTTTg acaatatcat tcagctcaaa 300
 aaggggtgcaa aggatataat taacattcaa ggaaagtTTT ttggtcaaaa gtctgtgtga 360
 tgtacaatca tggccttcat catgtttctca tttatacatt tcatttctaaa attcagagat 420
 tcatgcaaag a 431

<210> 19390
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 19390

agcttTtgaa tgcattctga tgtgggtgaat ttgatggatg tattgaaaag gcggagtcca 60

cccaggggtat gctattaaag aaaaaaagag aaatatacac gtagagaaga tgtcattctt 120
catgctcttc aactcgagag gcaaagtta aagaagcaag aaaaaatagg tgatgcttct 180
gactagatca attctagatc atataatata ctgttaagaa aggcgtattc atgtatctag 240
acattaagaa atggcaatga aaaaacaaaa tcatatgcaa catcggggta aagaggtttg 300
ggcctaatat ttctttttga gatgtttgtt ctcattttct attgatccag atgtttatta 360
gaaactaata gttgatgata gtgctctaac tctaacaagt gatgg 405

<210> 19391
<211> 433
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19391

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cattaaaaag cttgcaactt gaggctgtct cttttactgc aagggaacaat gactatgctg 120
agccgttttc tacctgtaat gtgctgaata ctttgatact tgatgggttg tcgttgcata 180
aagatgcaaa attcctctct atatcaaatt ctagcctctc tagtttgacc ataagtggta 240
gttttgaaagg aggagcttac aaaattgtgc tttctactcc aaaccttagt tctctcacag 300
tcacgggtca taataatcac acaatctcct ccgcatgcaa tctttctttc cttgaagaag 360
taaccattga cacccttggt tatacactnt ttccgaatac agacttactc atcataagct 420
ggctgcaagt tct 433

<210> 19392
<211> 335
<212> DNA
<213> Glycine max
<400> 19392

gctaactatt tacaccggag tgtgcaaaac gcatgagacc tcataaacgc attacacact 60
cccatctcta tattcccttc ctccactttc atgtgaaaat tcaagtacta tgacaacaaa 120
taaaattgta aacccaaagg gttcctaggt tgctacacca agactcacat tatgtatttg 180
agtctcagct gttctagaag atgttagaga acagctattc atgaagatac atattgcgag 240

tgtgccaaca atttgoggaa tctttcctct ctgtccctac gagactggga ggttgtggtc 300
cctgatggcg tccgtcggtt ctttcttggg cgga 335

<210> 19393
<211> 321
<212> DNA
<213> Glycine max

<400> 19393

taagcttgaa ggaaaccttg atgccttggg caaccaagta actcagcttg ccatgaatca 60
gaaatctaca cctgttgcaa gagtctgtgg tctatgttct tctacagatc accatacaga 120
tctttgtcct tctttgcagc aatctggagt taatgaacaa cctgaaactt atgctgcaaa 180
catttataat agacccctc agcagcaaaa ccaacctcag cagaacaatt atgatctttc 240
aagcaacata tacgatccag gttggaggaa tcatccaaat ctgagatgga caagtcctcc 300
acaacaacaa cagcctgtcc c 321

<210> 19394
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19394

tcaacatcag accacttccg ggtgctgtaa ctacttttca tggacttgat ggggcctatg 60
caagttgaaa gccttggagg aaaaaggat gcctatgttg ttgtggatga tttctccaga 120
tttacctgng tcaactttat cagagagaaa tcagacacct ttgaagtatt caaggagttg 180
agtctaaggc ttcaaagaga aaaagactgt gtcacatga gaatcangag tgaccatggc 240
agagagtttg aaaacagcaa gtttactgaa tactgcacat ctgaaggcat cactcatgag 300
ttctctgcag ccattacacc acaaacagaa tggcatagnt gagaaggaaa aacaggactt 360
tgcaag 366

<210> 19395
<211> 350
<212> DNA
<213> Glycine max

<400> 19395

tttcatgcaa gcttgagggg gaggggttgag atatgattct gattagatat cattctgata 60
 tgattgtttc cttattttaca ttaggattgt ttccttattt acgttattga tttagtttcc 120
 tatttactat ttttatgtaa ttgatttagc ttgattatta tccctataat gaagggatta 180
 gattattatt ttaattaaac attgattact ataaataaac agccaagggt acattctctt 240
 taagcatcta gaatatacaa ttcagattca agtggtatgt gtgtgtgtgt gtggaataaa 300
 ctgtggtaaa ataaaaaaga gataggataa agaaagagga aggactaaag 350

<210> 19396
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19396

tattttcgat aaacttagat ctagatggga tgtgtctctc ttgttattac taatgttttt 60
 tcccatgggtg caattgagat taaaaatgaa gttatcgaca aagttttcaa agtgaacggt 120
 caccaactca agctttttca tgagagcccc caagtggagg aggaatttat ggcgggcctt 180
 agtttagagg tttcatgctt aatgtgaacc attgttgcaa ttgtcgaagt gataagtagg 240
 cttgaaaaat ttgaggagga tcatgtgtga taaaatgatg ccttgtgagt tttgggattt 300
 tgtggatgga ttgtattatt ccattcatgc tctttcatgt atgatttcac ccttgtgcta 360
 gattactcta ggtntngcct tgcttatctt ctctaggttt ctttttagtca ctagcaaaat 420
 aagcctacc 429

<210> 19397
 <211> 357
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19397

agtcttattc tatgctttat tattggntgt cggaaggca aatgtcagtg cctgctcaac 60
 aattaatcca tttgatttct catggaaaga tctatctaca tatattgtaa ataatatctc 120
 ccgttataga ttttctaagg ttaattcaac aatggaatca gctagcgcac gtgcattaaa 180
 aaggatttga tgctctgaaa cctctattgc ccaagaaacc atccttctcg ccaaatacaag 240

tcggtgaaga atttgtcgaa tggactaatc aattcacacc attatccggt gtgaatggaa 300
 atatagtcgt atgcgtcttg ttgccattac tatagcaaaa actaccttct ctaatga 357

<210> 19398
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19398

ttctttacat aatttgtcac tgactacatt taaatgcaat ctcacatnct tgatctttct 60
 tagtctaaca tacacacttg ctcaaactca tgataagaaa cacaaactcc atcacaatca 120
 tgcacttaat ttaaaataaa agcatataac tattttcaca aaaagataaa aagtgtttta 180
 ctaccatgtc atcaaaaaca agtcaaacta ttcaaaatgc ttcaggataa gcaaactaac 240
 taccataaaa taaaactagc agtgtatgta gacctaaagg aaatattgta tgaaaaccaa 300
 aattgtaata ataataataa atcaaaaagc aaaaagtatt atcaggaatc aaaattcatg 360
 tgactgggtct tggatatcct gtgcctgaac atcctactta tctgtcaaat gcaatactgg 420
 agtagtc 427

<210> 19399
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 19399

agcttattat tattgtttct ttaatgatgg tatcttagtt tctaattaat actttgttta 60
 acgcttctaa attttcttta gacttttata tctttgatga agaagccacc agagactata 120
 ctaacggatc aagatccatg gatgaaagaa gcaatttcaa aagacttgcc atcaacataa 180
 catagttttt gcatatggca cattactttt aagtttagta gttggtttaa tgctatactt 240
 cgggacaaat attcaaaatg gagttctgat ttttacgagt tgtataaa 288

<210> 19400
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19400

nggaaggaaa ggtggtaacc ctagcaacaa tctcaactgc acttccaaca ataacaacaa 60
 caatcataac aataatagtg acagtgaatg aatgtgtgag agtcaggaag ggataactag 120
 gttgaggtaa agtttagatt ggaattgcat cagcctaata gccttgtggt gtatgtgttt 180
 agttattatt attattatta ttattatccc ttaattgtta cagttaactt aagagggatt 240
 gctatgctga accctaaaac agagaggaaa aaatgcagga gtattatgtg ctgaataagt 300
 gaataatcta atctctttga agaagatgca tcagttcagt tgtcatgtgt aacaccattc 360
 taaattatat cagtatgggg atcatgtcat cattcatagc tctagttgga tatgcaacct 420
 cataagtcac atgatag 437

<210> 19401
 <211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19401

agcttgtggt ctacctcttt caattaagtt catgattttt cactctactc caagcagtat 60
 tgatgtgcca tcattttctt ctattttcta aacctttttt gctccattnt aattattgat 120
 tggctctaata tgtcaattaa ttaggcagtt ttattatttg ggctcattta gctaatttga 180
 tgtttctaata ctaatttcaa gaattaatga aacattgggc ttaatccgga ttttggttgt 240
 ggacttgaag agggcaaata aagcagcgct taccttagtt aatttctaata taagaaattt 300
 cgcaatttta ttttatgttg ttcagtgttt atttcgtttt 340

<210> 19402
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 19402

tataacattg cttagattgt gtaggtatca gattagatct atttgttttc aatatcaaaa 60
 gaattcccat tgtaattgac aggggtgcagg ctattagatt agatgagaca aacttctttt 120
 caatatcaaa acaaatctag aaacggagta acacaggaac tttggagtct tgtctcatat 180

ggtttcttaa ttacaagtct aacagtagtc tagtagatgc atattagtat cctaacttac 240
 cttttgtttt tcttaaccat ctgattcatc agggaaaaag aatgctaact aatgcacata 300
 atgtatgcag tgtgtacagg catttataca tcttacccaa atgacagata ataacaattc 360
 agtttagaca tcttaaccgc atgaaagcga aatacaatat gcgatgtatc aaaattaggg 420
 agtttgtgta ag 432

<210> 19403
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19403

agctttatgt tttgtgatta aaccggattt tacttggaca cataaaatct taaaaagaat 60
 ataaatgtat atgccaagta tgtagatntg gaggtcaatg cttgtttata tttattatag 120
 acatgattca caatagaaca ttatagcatt gtgtgatcca tcatgtagtc aaccctccta 180
 gtgcatgtgc tatgtatata gttaaagtgc atgttgggtt tgttcatctt attctggaga 240
 aataactgca tacttttgtt ggcttcctac tagagttctt aaaaaataag ctattatattt 300
 tccatatgta agacaaacca aacttgctaa atcatttana ttaatgttga atttataaca 360
 atttactaac tgtctatttc tctaatatat gacagtccca catctaata 408

<210> 19404
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19404

tctcgaagga ggtcgttctt gatgttggtt atgcggctgg tgtagaacc gtggtcgacc 60
 ctgagggcgt ggatgtcttc ttggaggcca tggattttgt acttctgact caaagatcgc 120
 atgctcaata gaaggatacc cgtcatggcg aagaattgga tgaagctgtc cttccgttgc 180
 ttgcgctgcg ccataaacc taatatcttc ctcgaatgtt ccgcggcggc gctcggtcga 240
 ggagaagctg aagaagaagc catgccgatc tatccacaac acgaccgata ctattactca 300
 cccacctaca acagaacctc cctgctttct ttctcgtc atcacaatt gcaatgaatg 360

tcgacggatt cacctgtgta atcctccgcg ttactttctt gttgctcttt ttttctttnt 420
atctc 425

<210> 19405
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19405

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caciaagtta ttgtcgtttg acttttctca gagcttttat tctgaatttc gagcgtctcg 120
atatactacg ggacacaatc ggacatccga gtaaaaagtt attgtcgttt gattntgctc 180
agagcttctg ttctgaattt ccagggtgtc gatataccac ttgccaccat cggacatccg 240
agtaaaaagt tattgtcgtt tgaatttgct cagagctttt gttttcacat ttgagcgtct 300
cgatatataa cgagactcaa tcggacatcc gagtaaaaag ttattatcgt tagaattggc 360
tcagagcttc cattntcaat tacgagtgtc tcgatatatt ac 402

<210> 19406
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19406

tcaccttctg gtctctctca tagttgtggc atgagatttc atgctctatt ttcattctcc 60
actccaagta ggctccgga tcattctttc ctttaaattg aggaatgttg agtttaatac 120
catcaattcg gttttgtcta ggaacaccat cattccctct tctctctctt tcttcttcat 180
tatgatctct atttccatt tgatccaacc tctcgtggag cgcacatctt cgttggtttca 240
ttaacctctc catatgttgc atcaaagctt gcatttggaa ttgcgaaagc cccactccat 300
cattaggatt agtacctgac atctcanaca aacaaatcaa acgtaacaag acaattatag 360
ttgctgtttg aataacctac ccaactcaagt gtatcacaca attatggctn ttctctaag 420
aaacactctt gccttttacc actct 445

<210> 19407

<211> 367
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19407

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 gacggccgct cccatgctag ttntgcctaa cccaagagaa ccccttgagg tgtattgtga 120
 tgcataaaag atgcgttttag gaggagtgtt gatgcaaaat ggccaaggag tggcctattc 180
 ttctagacaa ctcaagactc atgagaggaa ttatcccacc cttgatctgg agttggctac 240
 tgtagttttt gcccttaaga tgtggaggca ttacctgttt ggctccaagt ttacagtgtt 300
 caaggattat aagagggacc atgacacana gatcctncac aaagaattta gtcccagaca 360
 acaagta 367

<210> 19408
 <211> 432
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19408

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 aaaagatgta actcttcaaa aggggttttga ctttttcaaa ttgggttttaa gtttttctaa 120
 aagttataac tctttctaaat ggtcttcttg gccagacatg cagagtctat aaaagcaagg 180
 ctttgatttg cttttcaata cacttttcac attcattcaa tcaatccttt gcaagccttg 240
 aatctctttg aacttcttct tcttctttgt actaaaagct ttctaaagtt ttctggtttt 300
 tccaaacctt gaaaacttgt gctattcatc ttttcattct cttctccctt tgccaaaaag 360
 aattcgccaa ggactaaccg cctgaattct ttntgtgtct ctcttctccc ttttccaaaa 420
 gaacaaagaa ct 432

<210> 19409
 <211> 399
 <212> DNA
 <213> Glycine max

 <400> 19409

tcaagctagg catcaaactt gctgataata ggctgccaaa cactocagct tttaggatca 60
taccgccattg gaattccaag gtaagaaaaa ggagaaacca gctgactata gttaaggaag 120
tgagctgcat ccctgcacca accctctgat tttcccaaac aaccaaactg acttttagca 180
taattgatct tgaggccgga taccatttca aagcatctca gaatagattg tatgacttta 240
acattatcca tagttgcagt cccaaaaaat agagtgtcat ctgcatattg cagaatatta 300
acctcctcct tatgcctgcc cacttgataa ctgctgaaca tattcttaga aatggctgcc 360
tcatcagacc tgtatggact taactactaa attgaaagg 399

<210> 19410
<211> 433
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19410

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aaaccttcag gttgtttcat ataaacctcc tcctctaaat caccattaag aaaagttggt 120
ttcacatcca tttgttgcaa ctcaaagtca aaatgagcaa ctaatgccaa gattatacga 180
agagaatctt tcttagatac tggagaaaaa gtctctttgt aatctattcc ttcattttga 240
gtaaatccct tagcaacaag tcttgccctg tatctctcaa tgttgccctaa tgaatccctt 300
ttggtcttaa agaccattt acatccaatg gtctttgccc cattaggcaa ctctacaagg 360
ttccaaactt tgtctgcata gaattcatct catccttcat gtcatcatac catanatttg 420
actctttaca acn 433

<210> 19411
<211> 383
<212> DNA
<213> Glycine max
<400> 19411

tttagcttat gaatatcaga tcgcaccttc gcttctaaat gttcaagaat ctcttgatcc 60
gtgggatcaa acttcactcc agcaggcagt ccaggtaagt catgaattcc accaccctaa 120
aattattcaa caccacaata tttatttaaa taattttttc ataaagaacg ccaaaaaaaaa 180
aatgaaaaa tgaatcaaac taagacaatt acatcaaaag aaaaaaaaaag tactcaaaag 240

ggtaataatta tctatatgat atatatcatt aacaaaaagg ttaataatta agaacctgat 300
 cttggcattt gatatgatga ccacacgtag gacaagttct aattaagcta tcttttcgtc 360
 cctccactat gatgttatga tga 383

<210> 19412
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 19412

tgcaattgcc ccagtaatga tcgcacttga cctgagttta gaatttgaat tgatgtgtga 60
 tgccaatgat tatgcagtgg gcgcagttct aacacaaagg caagacaaga tattccatgc 120
 catttactat gctagcaagg tcctcaatga tgcataaatg aattatgcca caaaggagaa 180
 ggagatgcta gctattgcct ttggccttga gaaattcaag tcatatttgg taaggtcgaa 240
 ggtaataatt ttcaccgatc atactgctat caaacacctt ctcaccaaag tagattccaa 300
 accatgactg attagatggg tcctgcttat acaagagttt gatatagtta tcaaagacaa 360
 gaagggatct gggagcgtgg tggctaata cctctcccag ttgaagaacg aaagagtaac 420
 taaagaagaa ccgaa 435

<210> 19413
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 19413

agcttgtgcg aatcaaata caatccgcac ttatctctag catgcattct ttctttcttt 60
 acccactcct cacgtttggc ttttttagga aaaacaccat aactaaacgc gccacaaggc 120
 atccctatcg caccagatcc aaatctagaa cgatgggtga tcaagaggag acacaggaac 180
 agatgaaagc cgacatgtcg gctttgaaag aacagatggc ttccatgatg gaggccatgt 240
 taggaatgag gcagcttatg gagaaaaatg tggccaccgc tgccgctgtc agttcgactg 300
 ccgaagcaga cccaactctc ttggaaaccg tgcaccatcc tcccttatac atagtaggac 360
 ggggaaggga cacact 376

<210> 19414
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19414

tagcgagagt tgtagggtttt atgatctgca gttttctcta agtgcccctt ctgtgcgcta 60
 aaccagcgtt taaaaaaat cagattttga atttcaaact tgggctaagc gcgcagctcc 120
 gctaagtga cctctttgag aaaccaaacy tctctctggc tcacttagcg cggtggttcg 180
 ctaagaaaga gggtcgaaaa ttgcttaagc aagtgttaaca tcagttacac ttacctttac 240
 caaaaaaatt tctgaacatt gctgcatct tctctctcac acccaaactc gcgcagtgtt 300
 actttctttg tgcatcttcg cgcattttca gcaatcaaca atccaagtaa gtttctcatt 360
 ccctttgctc ttttattttt gtgaacttta gggtagaaaa ccatagaatt tagcttttaa 420
 ttnttagggt tttaa 435

<210> 19415
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19415

cgtaagcttt agaaacccta atttgaggaa gaagaagcaa gtgaagaaga aaatatttga 60
 taacttttta aattttgcat taaagtcag tctacatgtc acattttggg acaatttgct 120
 acgttgata gtctatgtga cactaaaatt gccataatg cacctcacta acgcgttact 180
 tttaaattta acgacaagga ctattttgca aaacttatgc aaagataggg actatttttt 240
 acattttcaa aagataggga ctaatttgta aaaagggtca taagtcaggg accaaaatgc 300
 ttatntactc gtacaataac acttggttcaa tgtttgacnt aaaaaattgt catgagacaa 360
 cacaaaataa aaacgaagca taggacanag tctaaaattc 400

<210> 19416
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 19416

ctttaatttc aatacaagga agcatgactt acgctcattt atctaagttt tggttttgaa 60
 tgtaaaaagg catgaatatt aggacatggt tgagagggtt ttaatagaat ttaaatttgg 120
 ctgccccatg aggaatacct tgtacctagg tagcatggaa aatacctttc aacggtatgt 180
 atatatgtga atatatatat agcatggaaa tgccttgcat agtgtgtgaa tatatggcat 240
 aaaaatacct tgcaaagtgt gaatgtatag caaataatgc atttcaaaaa tctgtatatg 300
 tacgataggt agcgtaaaaa tgcctttcaa aatatggata tttgtggata ggtagcctaa 360
 ggagcctttc aaaaaaaaaa tgtacccatg tcaaaaatgg cacgagaatg cttcccaaat 420
 gaatatatga tgtggaact 439

<210> 19417
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19417

agcttaatat aggtttgtga agaaacatct tacagagaaa agaaataaca aaaaagatta 60
 aagatgaaat gagagaaatg gaagagaacc tgaagttttt tccaaaccga ttgagaaaga 120
 ggtactttca gaaagtgcctt ttgtttatgc gtcaaaagca ttaatcttgt cgaagttgta 180
 ttgcctattc agttctctaa tgttttaaga taaacatttg aaagttgaaa ataataatta 240
 tagaattaat attccagaaa ttgttgccacc aaaaatcacc aatgcattaa ttattaaaat 300
 aaagaatctt tttcattgaa ttactaatta gcaaatatga caaatgaaa tttccaaaaa 360
 taccncacc aatttcaca cacacatata ta 392

<210> 19418
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19418

tcatgcattg nggtgtgctgg tggaggacaa tgttttgtgc cagaaagaaa atgctctttg 60
 ttcttggatt caagcgccac aactatatca cgttccatt gacgaaaatt gctttctatc 120
 agtggtgaca aaacaagaac aacagaagga ttttctctag gatgaagaag ttgaatgttg 180

attgttaaca accataatcg atcaaaaaag caagaagaat aaaaaatgaa actagatttc 240
 aaatgaacaa atgcggaagg atgatgaacg aagaaggctt cgtgtgtagg gatgatacca 300
 tgaaagaaca ggaactgaat ttggaggaaa aaatagtttc tggaaaattc tccttatcca 360
 ttaatcaact caacaaaaaa aaatacaaga cttgctattt atacaagcaa agctatgggt 420
 aggaagat 428

<210> 19419
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19419

ttgcttcattg atcatgaatc aagttgattc aagtagtttt gatgatgaca aaaagcccaa 60
 gagaatgatt tcaagaatga gtcaacaagt tcaagatcaa gattaaagaa aagacatcaa 120
 gaagaatcaa gattcaagaa taatcaagat caagatccaa gactcaagat tcaagaatca 180
 agagaagaat caatcaagat aagtatttaa aaagtttttc aaaacattga gtagcacaag 240
 aagttttcac aaaatcatta ccaagaggtt ttactctctg gtaatcgatt accagaatgt 300
 agtaatcgat taccagtgtt tntaaaacgt taagaatttt caaattcana atgaagagtc 360
 acatctggtg atgtgtaatc gattacacct taat 394

<210> 19420
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19420

tctagacatt gttcttctgg aattggtctt gttcttcttg catggccttg acctaattgtt 60
 cattctccat agcatcatca gtgtgttttg gttctgtctc ttagacgagt attgtctaac 120
 cttgttgtct gggggatgcc cttgtttgga ccttggttaa ggagtcacca atggttgagg 180
 atccaatccc atcatctact ctgagatccg taataaaatc attcaactct gatatttttg 240
 tattaggctt gatgtcatca aacttcacat tgatagcttc ctttaataatt aaggttctag 300
 agtagtatat tataggcata atgtcacttt ttgtgcatta tgttntgtag ttgtttcact 360

ctagtacatt aagtttaaaa gttccacttt ggtcctttaa ttntttaaaa tgccacattt 420
tggtcctttt 430

<210> 19421
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19421

agcttctttt ggaccttgaa caagcaacta actcctcttt cagaaccatg ctatgtgctc 60
gcgactgggc cctctcttcc cttcgagct tgagttcact attgctaccc catagagctc 120
cgcgaaattt attccggcca tactcttctt tgcgagccct cttggtctct tgttcaaggg 180
ctctgggtgg aattgcattc tcttcccgta atccggcata ctcttccgg atgtgtgtag 240
cggccaactt gaacttctct ttggcaagtt tcgcctttcc taactcgctt ttgagagctt 300
ggacttcttc gtcctcttcc ggtgcttcaa aactctcttc gctgacgact ntttaacttg 360
cgagccaatc taaacctcgt atatg 385

<210> 19422
<211> 421
<212> DNA
<213> Glycine max

<400> 19422

tgtcaaacc taactaagga ggttgagcct ctcattgtca tgagaatctt tacaatttag 60
gagttgatgt ggatagaaga agagagatgg atagaggagg agaaggggat aatagacata 120
gatagagggg ttccttatt agagatgctc agacttagga tgtattcatt agagagctat 180
gaatctccga ggcggtatta tcccggtgtg cgggttgtgt ctattactta tgcttgctac 240
tccttttatt ggactaaggt gtaacttact tatcacgctg acttcgcgct tagcgtgaac 300
ttatacgcta agcacgcctt tgggcttctt tatgggcctt gttcaacctt agtgtgagtc 360
ggaccgctta cagaggggtgc gtgctaagcc tgcatagcat gctaagcgac gtgctcaatt 420
c 421

<210> 19423

<211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19423

agtttttggtt cccagtataa aaaaggcatt gctattttaag tgagttttta acgtgttaat 60
 ctacgcttct ggggttatatt gaaaataatg ttttcacggg acacaaaacc atatcatcct 120
 gtacagtgtg catgctaata cctactatgc aaaaagggtt tcgtaataata tacttaaata 180
 taacttttgg tttattgtat ttcgtagttg atttgtttta atatattaag ttttaaaagt 240
 ttgattttta ttntttttta aatgtattat ttttaatttt ttattaaaaa tattaatggt 300
 ttattaactt ttaaatttta aaaaatatta aaacaatata tttcaaaaat ataatgatc 360
 ataataaaaac ttattatact aaaacaaaat aatcaggaaa cataatatat 410

<210> 19424
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 19424

tagttgttga aggccctaac tagatcatga ttccaattgt tttctctttg gaatcatgac 60
 ttacaagggt tgcagcagtg ttgtgaaaat ctatctcatc gaggcattgg attagatgtc 120
 aaatatgtgg gtcatttatg ggtatcgcta atctatattt caatattaca taagtattta 180
 ttattataat ttattttgtt ggatattatc attgaatcat taagaaaatt cttgttatct 240
 tttatgatta agtacaaaaa ttatcaaagtg gtcacagta agtatgatga agatgtataa 300
 aatacataaa tattaaatca tatcaaaata ataactatta gttattatat atttttatca 360
 agatcaaaaat aatattatat gagcatatta tacgctagta ttcaataatt ggatattaat 420
 acgttaacat att 433

<210> 19425
 <211> 508
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19425

aaccgcgagg gaccacacac aaagaaagaa aataaataan aaganggggt ccgatcagca 60
 tgccaccgna aaannaannn ggccggggccc aagaaaggac agggcagctc aacgcatacn 120
 gcgcganacc cagcggggcan ggacgcggaa aaacacaaaa ncccgacca acggaaacag 180
 ngccaccaag aaggcaccaa caaccaaggg gaggaaggga agaagcccaa aaccacaaca 240
 cgccgaaccg aggcaaggag cgccaaggaa acgaagaatg aataaccac accgaaggcc 300
 acgacgatgg agacaacaca acagcgatta caccgccccg caaaagaga cgagacacac 360
 ccaccaaca agacctaca gaacgaactg caaaacctag aaggaaaccg tattcaccaa 420
 ggactacaaa gacaaagcac aacacgacac caaacacaag cactatcccc caaacacacg 480
 atgacagacg aagaggacga caaaccgg 508

<210> 19426
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19426

agctttatct ttgacaacta atattgntaa ttgatgaccg cgatgcatgt ttgtgccata 60
 tcattgacaa tgtttcataa tgcaaaataa tttattcttt tgcagcattg tgatttttca 120
 atcacacttg gatttgata ggttccaatt aaggcaaaaa ttattatatt tgcttgatca 180
 actaaaatgt tctttgtaca ttttttctg tgtatataat attaatttat gtatatctaa 240
 tttgtaatat ttctgctatt tatagttatt gtattttatt aattatcatg tgatgtctcg 300
 ggtattatct gataggattt tttatcattc taatcacatt ggtgatgatg ctaatttaac 360
 tgtgattcta tttttctga 379

<210> 19427
 <211> 437
 <212> DNA
 <213> Glycine max
 <400> 19427

tgcaactgat aatttttagt tgaaattgag aattgtatgc ctttcttctt aattctcaac 60
 acactttttg gatgagtctt ccaaggattg tgatgccttc tctaactttc cttccttttc 120
 cagtgataag gtaaagctac aaaattgagt ctccaattt ttgatataag ttttgtaaga 180

ccatcttttaa ttcgaacaag tggcttaaag gtgtaaatgc acaatccttc caagcgagca 240
 actcaaaggt gtaacgccat cttagaatctt cgtatgagca tcttcaatga aaatggaaga 300
 cttgaacgaa aatgggtggc tcgctcctca ttgctctggg aatagataac gatctatata 360
 atgagcacaa tgtatgaagg atggaaaaac tccaatttat gtcaccccag gttaagactt 420
 gtagatcaca ctattca 437

<210> 19428
 <211> 323
 <212> DNA
 <213> Glycine max
 <400> 19428

agctggatgt aacttatact acgcgatatt gtttaaaact taaatcatat cctcaaatat 60
 attttttatt catataaata tcaaaatatt tggaatttat tcctgtaaaa tttgatttta 120
 ttacgttagg catgtttgct ctctcctaaa tataacaatc ttgataaggc ctataaatat 180
 aacatatact tcaatttcac tctattagaa aaaggcccat gtgacaaaag aagtataatg 240
 cgatcgaaat gtttgaataa aatattacaa ttttttttcc atagatcaca tattcttcat 300
 taacactaag aaaaaaaatc ata 323

<210> 19429
 <211> 559
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19429

tcacgcacac ctataaccgg agtgagtaag agtaagatgg ttaatattac tcaaaaaaag 60
 aagggtgnatt ttgatecctt gagaccgtgt anaccncaan ntaannctaa acggncnntg 120
 agccgtaaga aatagactat aatctttatg tttcttatgc cttactgaca aaaggaatgc 180
 acgaaagagc ttgatccac ccatgctcaa cggcatatta tattagggag cacttttata 240
 atgaccgctg actctggaca gtgcgataaa ctaccgataa ccatgacata gtgacgtatg 300
 gcacgtgcat atgaccacc ataactgtga agtcgaagat gaaaagaatt acggctgcat 360
 gtgcctgtga tgcttgtggc acaacctttg aattacaagg agacgactta tattacaaag 420

aaaacgtgta tctaaatgac ggagctgaga atgacaacgg atcctgatgc ttatatgatg 480
gagcgtatgg atccaagttt agatgcatta gtgcgcaaga gccgttgaat aactagatat 540
ctttgacttt ccgcttagg 559

<210> 19430
<211> 331
<212> DNA
<213> Glycine max

<400> 19430

ctcaagtttt agctggacaa ttccgcgagc ctcgatatat tattcccttg aatcgcacct 60
ccgagtgaat atgtatgacc tattgatttt gctaagagct tgcgagctca tattcgagcg 120
tctcgatata ttatgcccc gaatctgacc ttagcgcgaa aggttatgac catatgaact 180
cctcgagagc ttgcgttgct taatttcgag cggctcgata tattatgcac ctgaataggg 240
tctccgaggg aaacgtcttg accatttgaa tctctcagag ctgcgattca tcagttttac 300
cgctcgaat attatgcgcc tgaatccgac c 331

<210> 19431
<211> 420
<212> DNA
<213> Glycine max

<400> 19431

gatgcaacat atggagaggt taatgaaaca tctttatatt ctctccatga gaggttggat 60
caaatggaga atagagatca taatgaaaaa aaaaggagga gaatagggaa tgatggtggt 120
cctatacaaa accgaattga tgggtattaaa ctcaacattc ccccttttaa aggaaataat 180
gatctggagg cctacttga gtgggagatg aaaatatagc atgtattctc atgcaacaac 240
tatgaggagg acaaaaaggt gaagcttgcc gccactgagt tttccgacta tgctcttggt 300
tggtggaaca cgctacagat tgagatagca acatatgaag agccaatggt tgatacatgg 360
acggagatga ataagatcat gatgaagcga tatgtgccgg ctagttactg cagggacttg 420

<210> 19432
<211> 397
<212> DNA
<213> Glycine max

<400> 19432

tttagtttga cctgtccaca taagtgaggc ttctatttgc caaaagatga ggagtattaa 60
ttgttatcat tgtctgaaaa taatgctcat caacataaca tttgtgtggt ttgcagaatt 120
ctttgagctt agaagcatat tcccccaatg aatccgaaaa gtgttcaaaa cctattaaaa 180
catgcacacc tcaactgaaaa atgatacaat aactgccaca aattttgtgt aggaaatcag 240
ttttgaacac tagagaaaaa acacatttaa tagcataaac aaacaattta taaagactaa 300
ggataagatc atgaacaaat catgagccag aaaccacggy atcaagaggg aataaaggat 360
catcaagaaa caatatgcga gtactttcat ttcaaga 397

<210> 19433

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19433

tttgatgggtg tcgagaagaa atcacatgtn tgtcattttc attttagggg agaatgtgaa 60
tgtatgtata catgaatttg atgatgtcaa agaagaatct aacaaggctg cttcaaatga 120
taagcatttg cttcaagaat aattcaagat tgcttcaaca aacaaagcct tgtttcaaga 180
ttcactaaag accaagcctt gccttaaaac aaagtgcttt caagacatgc aaggctctgg 240
taatcgatta ccaggaagtg taatcgatta ccagaagaca gggttgagaa atagctgttg 300
aaaaagggtt tgaatctgaa ttttcaacat gtaatcgatt accatatgtc tgtaatcgat 360
taccagcaac gaaactttgg aaattcatat tcaaagtcac aaccctgcan attataactg 420
tgtaatcga 429

<210> 19434

<211> 353

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19434

tagcttggcg acaatgagag gttttgagtc ggagtgcaaa atcaaggtga aagtctcgag 60
gatgagcctg gcttgctcaa tggagatttg aagtgactca aagattgtcg ctaagtcgac 120

tcattggttg gaggaagact tgagaagctt ctacttcagt ggaattaggg tttgtgccag 180
 gtcaaagaag atgagacgca ggattggcaa aaggccatgc ttgaaggatt cgcgcccttg 240
 gtgaatcatg gtggttgggt cccttgccaa tgaagatggc atgcacgaca aaggaggtcg 300
 aggagctagg agggggaaaa gtctatgggg aagaggtggt angtggcgga aat 353

<210> 19435
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19435

tggtgtccct ttcatttgtg acattggcat ttattatggt aattactcta taccctgcat 60
 tcattgggtc tgaaatacca aaaatcccaa ctcaatgttc agcagtgcct tctttatgtc 120
 atcaaatacc aatggaagga atggaagagg cttaaaacta catcactttt aattgattca 180
 atgttttcca aggttatgaa aattaactaa cctacactta tttccacgac gttggataca 240
 actttacagt ctttagactg ccttccaaaa agagacgaga cacattcatt cagcaagatt 300
 tatataattc agtctgataa acatagaaga gaatttttat tctctaaaat ttacaaaaca 360
 taaaacagaa catgacataa tagccaattn ttattctctt aaattttgat gacatatcta 420
 gaggactaca aacc 434

<210> 19436
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19436

tctgcttgaa ggtaaactan atgccttgggt taacctggta acccaactgg ccgtgaataa 60
 aaaatctgca cctgtcgcca gaatctgtgg tctatgctcc tctgtcgacc accacacaga 120
 cctttgccct tctgtgcaac aatctgaagc aattgaacaa cctgaagctt atgctgcaaa 180
 catctacaac aaacctctc aacctcaata gcaaaatcaa ccacaacaga acaattatga 240
 cctctccagc aacaggtaca atcccggatg gaggaatcat cccaacctta gatggtcgaa 300
 tccttcacaa caacagcaac aacaacctta ttttcaaaat gatgctggcc taagcagacc 360

atacgttctt tcaccaatcc agcagcaaca acaacaac

398

<210> 19437
<211> 530
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19437

acaagacccg cacgaacgca aaagagaaca gaagaagcaa ntnaaaaaaa aagagaggna 60
tnttgactga tacatngcan accngnaana anaaacncaa gcccccnanc nngggcaaaa 120
cgggacgagg acgttagttc tatccnnggc aanncgacgc gcggaagcag cagaagccaa 180
cactccaaca gcaggtctgc ccagatacac gcaaatacaca gcaggggaga agcaccacac 240
ctgccccga caaacaccat tcgagactca acaccacacc gggaaaaatg ccagagggaa 300
tgagacaaa gaagcccctg acgaagaccc cagaacaagc agccaacaag ctgacagcac 360
acagcaggac agcagcctag atgaggacca ggaacaccac gcaaaccaag gcgagcggtc 420
ccagaacgct accgagggca ggccgcgaag tacacgaagc acgcctgaag caaagccaac 480
ggagcggaaa gaaatgccgt ccaaaggcgc agcagggaca ttacaagccn 530

<210> 19438
<211> 334
<212> DNA
<213> Glycine max

<400> 19438

agcttggcat aagaccggtg ttctttatcc taccaagcca ttgctagctc taaacaaatc 60
aacaagattt gttggaagtt tgcacacaaa ctaaaatggt gattgtctta tagacggata 120
tatcactcaa cacttttagt cttttctctc aaggtataca aggtgtttta agatcttagt 180
atcttttcaa gaatttacag agatattttt acaagaaaga acgaaagaat gactcacgtg 240
aactgttcgt gtattgtttc ttcaaagctt cttctatata tagtcttcgt ctccaagtat 300
ccattgtctc tcaatgggtg gatccttcac tcta 334

<210> 19439
<211> 439
<212> DNA
<213> Glycine max

<400> 19439

tagagaggaa gcttcaatgg aggaacagaa tgagagttag agagagggag agagagatag 60
atagagagag agagagagaa agagaaagtg gcatggaaaa ttgaaggaag aaaggagagag 120
aagttgaact ttgaagcgtg tctcacaaga ctctcattta tcaaagttgt gacaagtgtt 180
acacatgttt ctatttataa cttaggtcac taactaaatg aaattcactt tttttgtgat 240
tttcattttc atttcatgtg aatctaagag gaatattcca aggatatacc aaagaaatct 300
tagcatattc caagaatatg ccaaaggctt cttagcatat tcctttttaga tgccacaaga 360
atggaaggtg tgactctagc acatgggaaa ggaatatgcc tcaagaatat gccaaaggca 420
tcttagcata atccttgag 439

<210> 19440

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19440

agcttgacgg agtttggcgc atcggggaac aatttcactt taaaagtggg tccaattgg 60
attcccaatt ttcaacttac ctatttggaa gtgacatcat ggccgctatg tcccagctat 120
ccattgtgga ttcagtcaca aaacaaactt gaatatgttg gactatctaa cacgngatt 180
ttcgattcta tttccacaca gatgtgggaa gcactttctc aggttttgta tttaaactc 240
tctcgtaatc atatccatgg tgagattgcy actacattaa agaatccact atctatccca 300
actattgac taagctcaaa tcacttgtgt ggtaaattac cctatctatc aagtaatgtg 360
cttcagttgg atctttcaag caattcattc 390

<210> 19441

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19441

tagagagatt cccgatctga gagggttctg ttctgttttc aacaacataa ctcagggtcaa 60
gatacaccaa atttgagaga ttcccaatct gaggaggaat cttcccgtgg attccagtat 120

cagagaggtc taggtgagtc aaggagctca ttgcacaaag gaaagaagaa attgccatac 180
 cttctccaag taaatcattg tagctcaagt caagatatcg aagcttagag agattcccga 240
 tctgaggagg aatcttcccc atgaatccag taagagcgag gtcgagggtga gtcaaggaag 300
 tcattgtccc atggaaagaa ggaattgaca taccagctcc aaataatata ttgccgctca 360
 agtccaagta attcaaatgt tntaaatcag ccaaacaagg acttatctct ccac 414

<210> 19442
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19442

agcttcagac caaggcaact caaaatctat gtatctaaaa cccctcaatt tagtggattt 60
 tcaaggtttg agaagtgaaa atgagaatgg ggtaaattta gagcaaactc tcacctcaca 120
 caagtctata accttaattt aaacttgctc aaactggttt ttcacctaaa attccaccaa 180
 atcaaaattt gactcctcaa cacctaattt taccctagaa atggcttttg ccttcacttt 240
 ggtcttttgt ttttctctct tgcacagccc aagctttctc ataagtctta aatgacattt 300
 caaactanga ctaactcact ttaacctnca atttctactg aatccagaat tagcctttca 360
 aacctcaaa gcatcacact ttttactca taacact 397

<210> 19443
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19443

tcttcggggc catttcttgc gagaacaaac attcagatgt tagttttacc agataatgct 60
 taccttaatg caaaaaatgt catgccaatc cctctaattt agactaaact cataagatcc 120
 attcatgcac acacgcatgt gtagaaaata ccctattatt tatatcaaca tacaaggata 180
 ttcaaaacat tctagttacc atacatataa attttttttg aaagaatact tacacgcatg 240
 ctcaaggatg tgtgcccata tggtcatatc ctaaacattt gctattttaca aactacctat 300
 acatgtttga aatgtatatc atacaaattt ttattgtttc tctcatattc atttatatgc 360

atgtcggaaa gctaattaca ttatgcacac acttttgcac ttaaaagga ctntcatgcc 420
atctaata 430

<210> 19444
<211> 395
<212> DNA
<213> Glycine max

<400> 19444

agcttcacca cataatcgtg acaaccaaac agaaccctat ccccgacatg cagaaccttc 60
agcagaggca aagagacgga gaaagaagcg agcgcggtga ggaacacgcc gttgagcttc 120
atgaccgaga cagtgtcgca gtggaagagg cagcgcgga gcgccacgta gcgcgagagc 180
gagagggaga gctccacgcy ctcggcgcy cggcgcgcca cgtgacacag ccaagtggcg 240
atgtcgcgcy cggagtagtt aggggttgcy cagcgaagcg ggaagcgctc gatggcgggc 300
gcgtcgtgga ggaggagcac ggagtagacy aattcggcga agccagttag acctccggga 360
tgggtggaac tccgggagga ctcgtcgtcg aagtc 395

<210> 19445
<211> 427
<212> DNA
<213> Glycine max

<400> 19445

gtacgcacat tggttgcgtg tatgatatcc actccttagg tttgttttag aggagagctt 60
caaccttata acgcaacgtg gcggacaaaa gtgggcagat aacttgaatg gtcacattg 120
tcaatgcgga aggtattctg cgcttacta tccatgttca cacattattg cagcttctgg 180
ttacgtgagc atgaactact accaatatat aaatgttgct tacacaaatg agcacgtctt 240
aaaagcttac tccgcacaat ggtggcctct tgagaatgaa gcggttattc ctccttttga 300
tgacgcagtg acacttatca ctgacctaac tataattcgt gcgacaggtc ggccaatatc 360
aacaacgata cggaatgaga tggattgtgt cgaaccatct gagcaccgac acaaatgtag 420
catatgt 427

<210> 19446
<211> 377

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19446

 agcttgtgct tatcaaatca ctctacatc tcatctctag catgcatttt ctttctttac 60
 ccactcctca cgttttggttt tttagggaaa aacaccataa ctaaacgcgc cgcaagggat 120
 ccctatcgca ccagatccaa atctagaacg atgggtgatc aagaggagac gcatgaaçag 180
 atgaaagccg acatgtccgc tctgaaagaa caaatggcct ccatgatgga ggccatgtta 240
 agtatgaagc agtcatgga gaagaacgcg gtcactgccg ccgctgtcag ttcggtgcc 300
 gaaacaaaac cgactctctt ggcaactacg caccatcctc ctttcaacat agtacgacng 360
 gtaagggaca cactgat 377

<210> 19447
 <211> 434
 <212> DNA
 <213> Glycine max

 <400> 19447

 cgctttgtag gtgaaatcag gtgcagccat ttccttagt gtcctctcac ggggtggagg 60
 ttgtgccatg ttctcagaat gtgcaaaatc agaatgctca gaatcagaat tctcaaaatt 120
 ataatgctca agatcaggat gttcaaaatc accaataaca gaatgcacag attcaccagt 180
 aatggaatgc tcagaatgat caaaaggat aaatgatgc ctaactaatc tatgaaatgt 240
 cctatctatc tcaggatcaa agggttgtaa gtcagatgga ttgcctctag tcatacacta 300
 cattcagcgt gcacacaact agttgccttg tcatgtaaat aaagggtgtag gtttgaacta 360
 cagctaccct caaatgatat ccaaatgact tgaaatctta tgagcaaccc tataaaatta 420
 tgagaagata gcac 434

<210> 19448
 <211> 381
 <212> DNA
 <213> Glycine max

 <400> 19448

 agcttctcct ccaattttct ataaataggg ggagaagtga agtgaaaaag ggttcagccc 60

cttaggcact tatctctctt tcgaatttgc ttggaaaaat tgtttctgtg aagaaaatcc 120
aagccgaggg gcttctgaaa cgttttcgta acgtttccgt gaggaatttc gcgaagggtt 180
cgaccgttct tcgacgttct tcattcgttc ttcacgttcc ttcgatcttc aacgggtaaa 240
tacctcgaac caagcttttc gattcattct atgtaccctg ggtgggtccac attgtgtttc 300
gtgtattttt attctcgttt catttacttt gtataccccc ctttgacgtg ccttaagcca 360
tttatttaag tcatttctcg c 381

<210> 19449
<211> 272
<212> DNA
<213> Glycine max

<400> 19449

ctattagcac acaccaaact cactagaaca cccagcgcc cacgcatgtg tgaaacatac 60
cctataatgt atctgaacat aaagagatat tcaaaccata cctagtacca tacataaaag 120
ttacggatga aagaagacta actcgcgtgc tcctgtatg agtgaccgta tgttactaga 180
ccatacatat gctatccaca aactgactat acgtgtgtga aaggtagata cggcaaatgc 240
ataaagattc tctcatgatc accgacatgc ac 272

<210> 19450
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19450

agctctctat atgttggngc ataatttagg gggctctctag ttgcgaccac ccaccctcct 60
tgcccaaaag agacttagct tcttcatctt gcaattcaag acttcttacc tttttatcat 120
tttcatgtcc atcatggcat catgtgagtt ctaccattta aaccatccac acagctcaaa 180
tccttcgtac aaactggaat ctttgtttgt gttcaccatt atagatacgt cacttttgaa 240
agttaaagtc gggcgtgcag gtaaatagta cagtcatggt ctataaaaat gaagaaaaga 300
atgaagtaat aaacctttgt ggggaattttg attttgttga ctatcagtaa acataaatcc 360
ccatatatac ttgctaaaac aatggattag agctatttta gtcac 405

<210> 19451
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 19451

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tcgtaattgt tgcagagaaa ttacagcctg ttctcactaa ctttttctta aatcactatt 60
cccttatatt gtttattttg ccaactttga tctgcacatt taaatatata ttaatgtcgt 120
gtttgtttca gacatgaaat gccattcata atttgtacac attaataaag aattgaagtt 180
ggaggtgatc ctgatcgagc aaaacaacaa ataaatatgt cagatgaata tgagaggagt 240
gaacatgctg atgatgactc ttcaatggga tcatccaga aatgctcatc ctttgatttg 300
aatgaagaag ctagtagcaa agataacaat gacaacgatg ataagggatt cgaggaagca 360
agggaagaag gtacttcaac taataaaagt agcagcatga caaaggaagg aagtaatgaa 420
cggagaggtg gcgtga 436
```

<210> 19452
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19452

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gcatgagcgg cgcttggcac ttgaacaaga tgtatatatt tatatatctc cctccaatat 60
gaattgtgac tgtttaaatt tcatttgctg gtttgcctg tgctttgttg cttgttttca 120
atgtggcatg tgatttaatt ttctgggcat tcttgggttt gaaattcctg acatcattat 180
tgctgttttt ttgcattaaa ttgattgaac ccttgaattt aaattgtgta aaatattctt 240
gcaaaaacca aaagttgttt ctaatgaatt ttccttgtgt attactacca tttatgagag 300
atgctggttg ttaataatgt aacatcttta cattgattta tgatatggat aaaatgcatt 360
ctacactact gatggaggtt tataaagaat tataattnga agtggttactt gctggaaggg 420
ttttccatat 430
```

<210> 19453
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 19453

ttaagtttat taagtgttga tgattataac acatatatat ctatatgaat tgttaaaata 60

aattacgaat taatagttca aataataaaa tttaaattaaa ggaaattaat atattaagat 120

tcaacgataa atacttttaa tgcatttttta gtttaattat ttattaacta tttttaattg 180

aaaaaaatat agtttgattt aatatataca tgttttgtgc catgtaaata ttaatatctt 240

gtgatgtgta tatttttcat aagggtgcat aacatgttgc ataggaatta taacattgtg 300

attgagattg gatgtatgtg ataaatcgag tatgtgttga attgaagata catgtgtata 360

agatcttgac gcattgagtt gtgagctat 389

<210> 19454

<211> 221

<212> DNA

<213> Glycine max

<400> 19454

acactctatc cctccactt ctatgcaaca cataacaagg ctagttgtta tagatactac 60

taataatggt gcatacagaa actgaaccta cggcttaata acttatacgt gccaaagtcct 120

ttccatctgg atagattatt gataggggag acaacaacaa ccaatgccgc acttgaacat 180

gtagaagcta agactacgga catgtcataa acaatatctt c 221

<210> 19455

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19455

gggataagga cctactattc catggactaa ttatctttta cttatttnca tggttctgtt 60

aatttttttt ctacgaaaat attctagcac tcacgtatat atggaccgag aagaacatac 120

gaaaaatatt atagcactca tacatttaaa gaagagtga gaattgaaga attcatgact 180

aaaataccat gggatgatgaa tctgagaagg aagcattcat ctctgagcgg ccttaagaac 240

taattatctt tgtaaactaa tttagtagca tatgtacata ttatttgcac tccaaataag 300

atattatttt ttttattgaa attaaagaag agattacttt aaatcttaaa actaaatatt 360

ggtccttaca ttaaaaaaaa taaaaattct cacatcattc tatgaatata tatatatata 420

tatatatata ta

432

<210> 19456
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19456

ggcactcnat cttacacaaa ggntcatcct tcctctcgcg gaaactcagt atatcagtat 60
tggcttcgct tctttttaat ctaggaagaa acggggtaag tacttacttt caacgtctcc 120
cttagtagta aggctttgag atggacgagt attgagccac ttcaaggcat ctccaattaa 180
agaataatgg aaaactctaa gataatgggtt ctctttttta ttctgagcca tccttattgt 240
actgcgtaga tcatatataa tgaccagggtg gttgtatgga tcttcatggc caagtcagca 300
aatgcatggt gaccaaaaag agggatggat gtccgcttaa cctctgttgc tgggtattgt 360
ctcttggatt gccatgct 378

<210> 19457
<211> 424
<212> DNA
<213> Glycine max

<400> 19457

tactaagctc gaaattgcac aagcttatca actcggtttc acattaatat ggcttatcaa 60
tttgtacaaa ttgtacaagc ttttctaaat gcaggaaaca cattgcaagg atactagaac 120
acaagcttaa aacaaatata aggaaactta aataagattt aaataatcca acgaacctat 180
gttttttttt tttttgcaa aatatggtag gtagatagaa ttcataggaa aaaaagagat 240
atagaaagtg gccacatggt aaaaagttaa cattactttt aatataaacg aacataatta 300
cattaatttg tggactattt tctcaaattg attgataaaa agaaatagac tattgaaatt 360
gctttctagg tttgcaataa agcctttatt ttgcaaagta ctagtggtga aaccttgctg 420
atat 424

<210> 19458
<211> 371
<212> DNA

<213> Glycine max

<400> 19458

tttgcttatc gttcaactga gaagatatcc ttttggttaag ggtggattct ttttgagggt 60
agagtttttg ttttaagcatt tccttgcacc cttcttccaa aatttcaagt gtcattggta 120
aggattttac cctcttttca aggtcaagac attctaactt gaattgccct gatttcttgc 180
actcacaaca aatgattgga ctgttttctt tcttatgata ggatcttttg gacgatccgc 240
tgaacttgga ggattccttg tttctccaca tacttctgat ctttcttgtg ataagactta 300
tatcattatc ttcttcatta gagtcatcat gcttatattc ttcttctaaa gcatcattca 360
ccacaaagac t 371

<210> 19459

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19459

ttgagaatcg tcaaagacgg acatgaaaaa attttagtta ctttacaata ggatangcac 60
atagattggg atttggaagt tatgtcaacc gccactgct ggacattgta taacgcagca 120
tatctcaggg cgctacttat ggttacatat tgagttgaac agaggctcca gaaatgaagt 180
ttaagcagtg aaacgtaacc atcccgaacta gacagaacct gagatacata ttgtttacgt 240
ctagacaaga tacaagtccg aacagcatat attgtttcca taaaattcaa tatatggagc 300
agaacacaat cagataactc actcaacctg tgcctatctt ttatatttgt catctgtgtc 360
ttcatcgctt ttctttctct tccttcatca tccattgata ctgaatgtgc tcggaca 417

<210> 19460

<211> 386

<212> DNA

<213> Glycine max

<400> 19460

ttatcttttc tgcttgagaa cattaggtct ttgtacatgt gcaactctaa gcgacattat 60
gtaggaggta gaaagattgt gtctaaaggt acaaacttct tcaatgctta aaactctttg 120
ttataatcga ttacaaggct gatcatattc gattacacaa gtgtctgtag cttgtagaga 180

gattctagta tcggattatt catttaccag ttaactgtaa tcaattacgt aattcatttg 240
agaccatgtc tgagacttca tgagtctctg ctttcatcga ttatcagata atcgtaatcg 300
attactgaat tcttaagatt gttcccagat gcgatctaga acactttaat caacttcac 360
aataatctaa tcgattacat agttct 386

<210> 19461
<211> 437
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19461

nttaacccct ttctaaatga taggctcaaa attttgataa atattccttt tcaaaatggg 60
ttgaagagat atgtcttttc aaaaagcttt ttctgaactt cttcactggg aatcaattac 120
aggtttctgg taatcgattg cattattata ttttgaaggg tcatgacttt tgaatttgaa 180
tttcaagagt ttcatgctg gtaataaatt acagacatat agtaatcaat tacatgttca 240
aaattcaaat tcaaaaccct tttcaacagc tatttctcaa acttcccatc tagtaatcga 300
ttacactgcc tggtaatcga ttaccagagt cttggatgac tttgaaaccc tatgttttaa 360
ggcaaggctt gatcttgaag aaatcttgaa gcacgactct gtttggtgaa gcaatcttgt 420
attaatcttg aagcagt 437

<210> 19462
<211> 379
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19462

agcttttctg acgatgtagc actactgac ttaaaaatac gtaaaccggaa ttaccgataa 60
cagacttcac aaatttgtgt cagtgggtgac tatcgagctc ctctctctgc aattgccata 120
ttgatgctta ttttgtctaa cttcacctat cgagaattgt tgtgtcaagt atccatttat 180
gttcaacctc tcaaacatta ataaatagaa atctcattct tacatgaata catgcataag 240
taaccatggg cttgattgaa tatgaaggat gtctcaaact acacataggt ntgtaaattg 300
tttgtgctt ttgcaatcg cagtcactaa actcctatag ttaactagcg gtatcaaaac 360

atgttaatcc aacctaatt

379

<210> 19463
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19463

tcccactgat gagagtctgc tcactcatgt tgtcactttt ctaatgattn tttccccctt 60
tggattgaca aatatagggtt gttttttgtg tatatttcgt ctgattgggtt tgtatcattg 120
atttctcttt gcagataaag gatggatttg ctgagggcaa ggatcttggt gtgtctgtca 180
tgtctgctat gggtgaggaa cagatttgcg cctgaagga tattgggcca aagaactagc 240
ttttgggtgct ggcagcctgt tgtttctatt taagcaaaga tccttttgta agcctttata 300
ttgggtttgtt caagacctgg cttatggctt atagattcta gtcagactag tcttaacaat 360
gggtgtttatg gatgtgggtca cagaaactat atcacatttt ttctggtttt ctatgctgtc 420
ctatga 426

<210> 19464
<211> 327
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19464

tagcttctag aaggagatca acttgatgtt ctatgcttct tgaaggtggc agtccatgag 60
gaatctcctt ggaaaagaca tctttaaatt cctgcaataa gggttgaaca ctaggagaaa 120
cataaatagt taactgatta gaattatcac tctctctctt ttgtgtatca ctcttttcct 180
cgggtgtatc actcttcttt ttcataatcc tttgtggagc ctactattt tctttctctt 240
gttctctctt ttctctcatt ctgatttagg catcacatgc ttatctangg gatagagggc 300
taagaattaa ccacgaagat ttgacta 327

<210> 19465
<211> 436
<212> DNA
<213> Glycine max

<400> 19465

ctataaaact cagcttacia ggctgagagt ggggtttttt ttatcttttc ccttatgtta 60
tcaaacataa aaagggaata ggtaatatgt tagccgatgc tctttctcgg cgtcatgcat 120
tactttctat gcttgaaaca aaattgattg gtcttgaatg tttgaaaagc atgtatgaaa 180
atgatgaaac ttttgagaaa atttttaaaa attgtgaaaa attttcagaa aatggtttct 240
ttagacatga aggcctttctt ttcaaagaaa acaaattgtg tgtgcctaaa tgttctacta 300
gaaatttgct tgtttgatga gcacatgaag gaggtttaat ggggcatttt ggggtccaaa 360
agactctaga aacattacia gaacattttt attggcctca tatgacatag gatgtgcaga 420
aattttgtga acattg 436

<210> 19466

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19466

agcttataat ctntcttaag tggggtgtat tcaatcctga attttaaaag attttttatt 60
aaaaaaatta caattttcaa tcaaactttt aaataataaa aataagtctt attggtacia 120
atatttcaaa ataaatatca tgtgaagatt taagacttat ctgtttaagc ttagagaaat 180
aatggttcta gtttctcttt ttttttttag aagaaacat tttcacctca taaaatatat 240
tgaaatagtt cttagttaa ttttttctga agacttgccc aactattata tttttgaaat 300
atatctttta acttcaaaat attttccttt canaatcaaa taaacataac cttanacaaa 360
aatattaaat tntatttagc agtttagaaa gacatggttg agttc 405

<210> 19467

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19467

ntacaaagat ggattataac ctactagaaa ataaatttat attgtattaa ttgaaaatta 60
gaacaaaatt cttttctaag atgaaggaac taaatttatc ttttttgaag agacggcatc 120

tacactggtc caagaggtac ctttttttta agccattaga tcaatctcgt gcctacatta 180
 ttacaatata ccatcaacac cttacaattt ctcaatcadc ctcttttact ttctgtcca 240
 cactttcgct aacgccgaca gacacgtcgc tgctgaacct gcaacaggta aacccttgcc 300
 ggcgacactt tatcacacaa gcaatttaga atcatgattc caacaatadc acacacatga 360
 aacctaacac ctcanaattc accaccaadc taaaccttgc aattgcaaca aagacacata 420
 aatcagttgc atcaa 435

<210> 19468
 <211> 216
 <212> DNA
 <213> Glycine max

<400> 19468
 agcttctatt tatcagaatt tattagatcc tcattattta ttagtttcta aaacactaca 60
 atctcctgac ttatcaacca aagaactttc agctatctca gaactttgcc cateattact 120
 tgaggtaadc atactcagct tatcagaact tccctcttct tttatgttgg taactatttc 180
 acctgattgt agacactcta agacacaatg tataact 216

<210> 19469
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 19469
 tgtaggatta tggagtaccc atcacatgtg gtacttttgg gtttcgggag aaggtgcaca 60
 acaagttgga ccatccacaa gacgcgcata aaccacccat cccctgatgc ccacctccaa 120
 ctaagctcac gtactaccac gtagcccata tggctgaact ctctcaacac caggtcccca 180
 tcaatcctgg aggacgggac gacatcaaag taattcagca tgtaaacagc acaagctadc 240
 tcagccaaac gaaacagggc gaaggcagaa aactctgccc aaaacgcca ccagaatcaa 300
 agctcttcac atacagatac ccgagacaca ttgccttcgt tgcgattcgt taaccgttgg 360
 atccactcga aattatgact gcaagtctct agtacataag cctacattca gaccgtaggg 420
 atctact 427

<210> 19470
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19470

agcttgagnt tattatagnt gaccaataaa aaagctaatt aagtttttag tcatgggggtt 60
 ttaaattttt tatccctaaa ctattntaaa aaaaaaatta attcctaaaa aatttggtgt 120
 tattaaaagt agttcatgtc attgatatcc tctattaaat aatgaaatgt tatgaaacaa 180
 gttagatgtc aggtgtatgt catatatatg tcacgtaagt tttattacat ttaagtaa 240
 aattagaata ttatgttatt aaaatgtaaa aaaaaaaga aaaaagtcatt tattgaaccc 300
 taacgcttca agcaccatga actacattaa ccatccatga gcagttcatc ctctcatct 360
 attatctatg atgatattcg tgaccattta agtaggaatt atttat 406

<210> 19471
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 19471

tgaaccatga atggaggcct ttatctatgt tttcatatat cttaaagggg tacaaaacaa 60
 acctttcccc tagtcctaa cccctctaag cttagaaaaa aattaggaac acgaaactat 120
 gctaagaccc gctaatttct cgcttataat tcgctctata ttgagatcag aactgggtgt 180
 aatctagaac gaattcgaat ttatactttt gtgggtctct aaaatcaagt cctatctttc 240
 aaatgccttt ggtctcattc aatttagagt tccctacaat gttgtatgac tattatacca 300
 aaacagattc agagagacca atctgtagat gactttgcat gtagaggggt atttgagtaa 360
 gtacatgggt tgtgatgcac aagatatatt ctcaagtatt tctctgtttg tcttggttaag 420
 gttcacgagt gtccatt 437

<210> 19472
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19472

agcttctagc tttttcttgt ctgccttaaa ataaattggt tggctgctac aggttcgcaa 60
atggagagag tggcaagctt tgcaagacct taaatcactt ttttcagaag aggcaagcaa 120
atgcttataa agtttgggtct tttcttccat gtttatcact tctatttcag tgtcacttat 180
tggttttctg ataaatatta tactctaggt tcttgatggt attgtatcca gcacaaatga 240
tttggggcct ttcagtcttg acaatttcag aanaaatttg tctgcttcat ggagagttag 300
attangaaat tcaaacgctg aacatgaggt ttggaagaat tatgtgcttc tgcaattctg 360
catggaactt ttaatttggt aattt 385

<210> 19473
<211> 437
<212> DNA
<213> Glycine max

<400> 19473
aacttgtagt tgtatagcat ttggttactc atggctcaat cttaaagtaa tataataaga 60
atttaatgat cgcataattaa taaatgcaaa aaaaaattta catgatgaat caattaattt 120
ttaattatta gttataactt ttagaatatt tattataaaa ggcaataaat ttatgatgca 180
tgatccatgt atgacttatt ttctcaaatt ataatacata ctaggttttag tcttcttttt 240
cttttttttt tttggtaact aggttttagtc atattttgct catttaaatt cagtgttggt 300
ttagtttctt caatttttta ttttaattaa ttttttctc ttttatatta aaaaattaat 360
tatttaattt ttatttaaaa ttcttaaact accactttta ttcagaatct taaaaaactt 420
aagtaaatta aattggt 437

<210> 19474
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19474

agcttgaatc tntatgttta tgatcaatag aattatgaat atagacaatt aattcactaa 60
atatatggtt tcaattaatt ctgaaaagtg gatcagttcg attttttcct ttttaagatat 120
aaatattata aattttaaat atatcttttt acgtcattta acatttatca attaaacttat 180

caattaatat tatcaaatat taaattaact tataaaattt taatttactt ttaatctttc 240
aacttctaac ttataaactt tcagctaact tatgagctaa tcttaccaat aatcaatttg 300
ataaaaagaa aagctaattgt atatctaact atccgaatta gaaaanatca cttaccttat 360
tcaaaatcaa ttcctaaata atgataaaac aaaattcaat tcctatat 408

<210> 19475
<211> 437
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19475

ntggaacgga ggaagcaact gtgttgcaac taataatctt tttggtaaac aatatttcta 60
caaatatatt gaagcaaact atttacaag gagtgtgcaa aacgcatgag acctcataaa 120
cgcattacac actcccatct ctatatccccc ttcctccact ttcattgtgaa aattcaagta 180
ctatgacaac aaataaaatt gtaaacccaa aggggttccta gggttgctaca ccaagactca 240
cattatgtat ttgagtctca gctgttttag aagatgttag agaacagcta ttcattgaaga 300
tacaaattgc gagtgtgcca acaatttgcg gaatctttcc tctctgtccc tacgagactg 360
ggaggttggtg gtcctgatg gcgtccgtcg tttctttctt ggctcggaaga aaaaatcttg 420
tgtgtcaaga acatatg 437

<210> 19476
<211> 399
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19476

agcttctact tatgtggcag ggcgggcttc cttcactttc ttgtctccaa cgcgagcttt 60
gaccactggt cttccttcca gcgatgcttc ttttcatggt cgcttgagtg ggcttatagc 120
ctaaaccata cttcccacgg tttccttgag tatttatcag gccagttatg ccaccgttgt 180
ctttgcctaa acccatcccg gggttcataac cgttcccaa cataactcgg gccatcatta 240
ccgctgcatt ggacagacaa ggctgcccac agaggagtc cacggaggaa atgctgacca 300
cctcanaaga ctggaaagca gtttctaacg attcttctac ggcttcacac taaggcatgg 360

aggatgggca gcttaccaag atgtcttcct cgcctgaca

399

<210> 19477
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19477

tgtagaatta tgggggtaccc atcacatgtg gttctatgtg gcgggtcgggc gatgggtgcac 60
aacaagtttt ccacatcccc aaagcgcgca taaaccacc atccctgtt gccacactcc 120
aattgagctt acgtactccc acgtagccca tctctcgtt tctctcaaca ccgggtcccc 180
atcaatcttc ccaagcttcc ccaacatcca ggtaaaacaa cattcaaaca taacaaacta 240
tcacagcgaa gaaaacaggg caaaggcaga agctctgccc aaaacacaac tcaaaatcac 300
agctttttct cacttaaaga cccagtaac atttccttcg ttccaattcg ttaaccattg 360
gatcgactcg aaaattttac tggaagtctc tagtacataa gcttacattn tgaccgttgg 420
gatctactag aa 432

<210> 19478
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19478

agctttgttc catataaaag ttaattcaaa caaaataaaa ttgatatagt tgtgacaact 60
tctagggtga aaaagtttat caaatgatct atgagtgaag caccattatt aatccttaga 120
tttattatta aaatatttcg atggttcaaa ttaaaattaa ataattttta acaaacaaat 180
aaataaataa ctgtatttct atctttttca ttctcacccc accccaaca tctcaaagat 240
gttccacagg aatctgggaa atcttaaaaa ataaaaattg ttcatacatg aaaaattgat 300
aaaacattaa atacattntg tccataaaga aatgctctca tgtgtgtgcc tgtaaatcat 360
tttcatcacg agaataacaa aataatctaa gtaactgaac at 402

<210> 19479
<211> 432
<212> DNA

<213> Glycine max

<400> 19479

taggcctaga ggggatggac cttttcaggt tttggatatg atcaataaca atgcctacag 60
gttggacctc ccagaagagt atggagtcag caccactttt aacatttcta atttaattcc 120
ttttgcaggt ggaactaata ttgaggagga ggaactaaca gatttgaggt caaatcctct 180
tcaaggggga ggggatgatg caatcctccc taggaaggga ccagtcacta gagccatgag 240
caagaggctc caagaggatt gggctagagc tgttgaagaa ggccctaggg ttctcatgaa 300
cctcagggtg gattttctgag cccataggcc aagggttgtgt ccaattatct ttgtacatat 360
tagattaaga tgtcattata ttttgtcttt gtatttaggg ctccatgatg taggtagggt 420
accctagaaa ta 432

<210> 19480

<211> 398

<212> DNA

<213> Glycine max

<400> 19480

tcttgcttta aaatttgaat taaaacgttt agaaattggt ggtaatcgat taccatatat 60
gtgtaatcga ttacacagtg caaattttga attcaaattt taatagctgt tgtaaactcag 120
ttttggccac tggtaatcga ttacatcctc tggtaatcga ttactagaga gtaaactctct 180
tgaaaaagac ttttttaact taaatttctt ggccaaacct tttgctactt caattggaat 240
tcccttccta tttaatgtaa tcttcttaag acttttagaga ctgtcttggt catccatctt 300
gaatatcttt gatttctttg tcttgaataa aactttgaga aacatgtaat cctttggcaa 360
catcaaaaca tcagcttgat cctttgtcta caacctac 398

<210> 19481

<211> 402

<212> DNA

<213> Glycine max

<400> 19481

tctgcttcta ttgctcttct tcatctttac ttgggctatc tcagaccttt tatgtttgtt 60
gtctaagatt ttgcatacac ctcttcaaa gtgaagtgtg tagcttctct ccatcatttg 120

accaatgctt agaatatattt ctttttaggct gggaactagt aagacatcat ggatgagtcg 180
 cataccttta tctgtctcca ccatgacagt gcctttgcct tttgattcaa ccacacttcc 240
 atttcccagt cgaactttga ctttgacaga ctctgcaatg cttttgaaaa tagtctcatc 300
 cttggccatg tgattgctac atccactatc caagtaccag cttcctccct tttcttttat 360
 tgagtcttga gtggcataga acgtacattg ttcttgatca tg 402

<210> 19482
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 19482

taagctttaa ctatagaaga tctccaggat gggatatcttt tattaacaac tatttcgaaa 60
 gtgcaaatta ggttatgaga gccttctttt agggttctca aagcgtatta gaggcttctt 120
 ttcaatggct actagatgta gttaagtctt tacagaactg agtgaatgaa ctgacaatat 180
 tagaaaatta caggacacaa gaaatacctc cattattatc agttaatggg gcaagagtct 240
 tcaagtgcac atgcagtgca tacgatgatc acaatcaaga cacgcacaag gcatgcgaca 300
 agtgcacaaa cgtatgcaat gagaagaaaa acattataga acccaciaaac agcctgtaca 360
 gtgaacagct gttctcgctc tccagacctc caaacagcga ttcaagcatg caattgattg 420
 gtagtggcgg atgaa 435

<210> 19483
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19483

agcttcataa tgattagatc attatgatgc aatcctatcc cccaagggca ttggatagaa 60
 gactccaaga agattggggc agagatgtag gagaaggccc taggggttctc aagagcctta 120
 ggatagattt tgggcccattg ggtttagtat gagaccactt atctttgtac atattagatt 180
 aaggtttcat tatttttggg ccttgatatt agggttccat agtgtaggga ggctaccctg 240
 gtaatatagg attttttagc ccttgtaatt tatggcacct agactagttt ttgtattaag 300
 ggtagtntg taattttaca tgcattaagt gcactatttg at 342

<210> 19484
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19484

tcacaaatgt ttcttggttc aacctgtgaa acttaagctc atgttggttac acaaaattct 60
 aagtctagag ttcttagaaa caccctttga gatttctcca actatgttgt ctaaggggag 120
 atccttttga gttctccact ctctaggaaa ttcttttaggc attgttgtat agatctcttt 180
 gctttgttca aaatcttcag ccttgatgtc atattcaaga aaaaaatcct tttcctaaaa 240
 acctgtatct tcttaaaaag aattttcttg aacaataaag ttagtttcat cacaaccac 300
 acatataaat tcttcaacag ttaaagttct tttattgaat actccatatg ctttactatg 360
 caatgaataa ccaagtaaga tagcctcatc agcctttgca tcaaattntc caagagagtc 420
 tttatcattg tttaaaatga aa 442

<210> 19485
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19485

tagcttancg taaattagtc taaactttcg taagctatct aagctaagtc tagtccaaca 60
 agagggatct gaggacgaag cttagtctaa gttagtctaa acctatgagg gctgtctaaa 120
 ttgagcctag tccaacaaga gggatctgaa gacgaagctt ccattcattc aatctcacta 180
 gggatcgagg tttagtaatt tatgcttcag catacaacac aaaagcatga ttgattagag 240
 aaacatcttt atatacatca gctggtttgt tagaaagacc caacatcttt acctattgct 300
 tgtcaattta cttacttgca ttngtactgt ttttagccta aacttagtta attctgtcta 360
 aatcatcaat catcaatggt ttt 383

<210> 19486
 <211> 201
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19486

actatagaaa ctaagcttgc acttgagggg gacatacaag ttttggttgg ttttaaacac 60
 acccacgggg ggagcttcta atgaaattga gccaacacca ttttcatatt gttaatttaa 120
 ttacctttgc atgaggaact aatattgcgg tggaggaact atcatcattg tggccaaga 180
 ctcttttagg gggaggggaa g 201

<210> 19487
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19487

agcttttgat aaagaaagaa gaagaagaag ttcaaagaga ctcaaaatc aatgtggaaa 60
 aattgcttgt gtaaagaatg aattagaaaa gatagatctt aaaatgcaaa acaaagcctt 120
 gcttttatag actcttcatg tctgggtcaag agaaccatta gaagagttat gacctttaga 180
 aaaacttaaa accaatttga aaaagtcaaa aactatttga agagttacat cttttgattt 240
 gttcagaaac tatcactggg aatcgattac caaatcagtg taatcgatta cacaagcctt 300
 ttttgtgaaa ggatgtgact cttcacaatt taatttgaat tccaacattc aaacacactg 360
 gtaatcgatt accanatcat tgtaatcgat tacaaca 397

<210> 19488
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 19488

tatccttttc ttttacagat tgcaacttta aatacctttc tatcttcatt aactagccca 60
 tcagatttcc tcccttgaat attggcattt caagagttct ccgccaattt cttctttgtg 120
 aagcattccc cttattctct cctattgaat tgtctcgcaa cctgcccttt ggcggggggtg 180
 tgaaaaggcc tatcgaatgg gccaaagggtg catcttccgt tgaaggaaaa tgtgtggagt 240
 cgccatcaac gtttatttga ggaaaacgtc agaaaaacca aaatggaaaa ggccgaggggt 300
 ttgcgtgttt tgaaaatgag gattcgaaag ttgtttacgc aagaggaagg tattaacacc 360

cccacacacc cgtcacaagg gaaggcagcc tctaatagag tgtgaaaatt atgacttcaa 420
aactatttat 430

<210> 19489
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19489

agctttatta gagagacaag cctggttgat tagagctaga ttangtgcta cgcactcttg 60
atgttgatgg gattgttaag ctcttcaatt tggaggaagg ggttgtcttt actgtcaata 120
gaactcccaa tatcttgctc tattggatag tatttactct acaatgaccc tgataatgat 180
tatgatttgg cttatgtgat ctctagatgg ttggatatgt agaaatccta ttagtactag 240
tatectctca aaataagaaa ctagacgatg tcattattgg taccatacca aagcatattg 300
acaatgtata acccctagat acctatactt cataaggctg agtattgcat atttgtctta 360
gattttttaga atgtgagttt aagcctaact caaccccaaa gctag 405

<210> 19490
<211> 442
<212> DNA
<213> Glycine max

<400> 19490

ctaagcttcc gtaaagaagc agaaacaata gtggctcggt gttttctgta tgatcagtta 60
cttcactttc ttatcttcta gattcttctt cctatgcatg tctttgatct gcataatctt 120
caactgttta taatttttta atcttaaata ttttaatgga caacattata caaaaactta 180
ataaaacaac caccaaattt tttgataaaa aatgcctttt ttccctctct catttactta 240
catatttttc tctctctttt tattttgatt aatgtatacg tggatcaata catgattttt 300
ctctctcaac taggttgggg gtcacacctt acaacatctc ctctctgatt tgattttctc 360
tctcagctgg gttgggggtc acactttaca ccatcttctt cctgatttga ttgatgtata 420
cgtggattaa tacaatgcat at 442

<210> 19491

<211> 395
 <212> DNA
 <213> Glycine max

<400> 19491

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agcttgagtt gttaggtgaa gatacataaa tgatttcatt cattctatct tcttattttc 60
ttttcttgta agtacttatt gagagggttta ttcaaaaata tcatagcagg caacattcct 120
agactcatcg taacagatgc agcaaaacat ccatgccatg attaatacaag aattttaaatt 180
aaaaaaaaat aggtaagtat aatcaacact tcatagtata aaccttacca ccaaattagg 240
aaacaagttt aatgagtcaa tagaggccag atcattaatg ttgttattag ctgtatgatg 300
aattgaaaga cattagctgg tatccacaat ccagatagca ttgcatatgt tgaaaatgat 360
acttatcaag aaggaaagta taatattacc caata 395
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<210> 19492
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19492

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ntaattcatt atctttgaag aactgactt gttccattt ttttaattcta gaactggaac 60
aagtggagca agaccagat ttcataatgt tgtctcgcca atttaaagct actgcaatgg 120
agcttatttc tgttttggag ctggttaaagc tttgacctt aacacttcta ctaacattga 180
ctgaaaaaca tgacatgcta tttgagcatt gagctttaa aactctagta ttcttttaag 240
attggttgga taatatcatt atactccatg tttgaataaa atattttgtg ttatagatat 300
gaactttttg ttttatagtg ataaactata gtttttaaga ttttggaat gccatccttt 360
ctgtgttgca tttgtattag ttgcttacat ttccttgctt tattatagaa acaaaaaact 420
ggtggttaga caaaagt 437
```

<210> 19493
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19493

agcttttgctt tttttttctt cgccagngaa aggatcaatg tgggtccgaa aagacgcaaa 60
 tttgatcatc ctactatgac gactgagaaa actggggcaa ataaagatgg tgaggatgag 120
 ggagaaaacc atgctgtgac tgccattcct atacggccaa gtttcccacc aaccaacaa 180
 tgtcattact cagccaataa caaacctcct ccttacccca ccaccagtt atccacaaag 240
 gccatcccta tatcaaccac aaagtctgtc taccgcactt ccaatgacga agaccacctt 300
 tagcacaaac catataataa caccaacaaa aaggaatttt gcagcataaa gcctgtangg 360
 ttcaccccaa attccgggtgt catatgctaa acttgatccc atatctac 408

<210> 19494
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19494

ntagactcaa ctatcttcac tttcagggat ttagacgtga tcttcttctc ttctatttg 60
 gagctcgtct ctccaaatta agaccaacag agtccctccg tgggagctga tcacaagttt 120
 gaagatgaac cttgaaataa atggaacaca ctagaaaaag gaaagactag tttgtatgag 180
 taatttcaaa gctttttcaa caacagtttg caaatataag tttaaaagca agtttgaaat 240
 tgttttgtcc aaagatgaaa attcgaggaa agggatatac atgttagaac aagaatactt 300
 gttttttaac taattcattc aacttgaatt atgtctaatt cttcttcaac ctaaaaagag 360
 ttccattaat caataattga ctacaaacaa gttttttttc ccaccaatgc ttgcttacaa 420
 taagaattct ctttgtcg 438

<210> 19495
 <211> 400
 <212> DNA
 <213> Glycine max
 <400> 19495

agcttgtaga ttcaatttcg agcgttccga tatattacgg gactcaatcg gacatccgag 60
 taaaaagtta ttgttgtagt aatccggaca tagctgcaac attcaatttc gagattttcg 120
 atatattacg ggactcaatc acacatccga gtaaaaagtt attgtcgttt gaatttgctc 180
 agcgcttcgg tattcaattt cgagcgtctc gatatattac gggactcaat ctgacatcca 240

agtaaaaagt tattgacggt tgaatttgct caaagcttcg gtattcaatt tcgagcattt 300
 cgggtatatta cgggactcag tcgaacatac gagtaaaaac ttattgtcgt ttgaatttgc 360
 tcagagcttc aacattcaat ttcgagcgtt ttgatataatt 400

<210> 19496
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19496

ctcagcttct atataagctg aaccattnta tcaataaaga caagttgagt tttattcaga 60
 aaattagagt ttatctcttt tatcttagtg agagtgattc tcctaaattc ttgagtgatt 120
 caagaacacc ttggctgtat caaaggactt tcacaacctt tgtgtgttgc cctcgctgga 180
 aagagtgatt ctttccttcc tttcatcttc acccttgttc tttcaaacca caattccaga 240
 aaatccacct ctgcccagaa ttatctcgtg gccataactc ccattttacg cactcaaatt 300
 aagtgattct tgagcctaaa ttgaattcca aaacgagagc ttccacctcg ttttggaatc 360
 acctcatttg gagccctgta gcttcctgta ttgccatttc tatatttctg tccagccacc 420
 acttaacctt cgttntacca tccatttca 449

<210> 19497
 <211> 316
 <212> DNA
 <213> Glycine max
 <400> 19497

tcaatcttgc tctaaattca catggatgtg agtatattatg ggaggagggt gtatgtcatt 60
 tctgttttaa gagtagtgtc ccgctggtaa aactaacttt ccaaattgtt gccttcgcag 120
 gaaatggccc cgaggaagct tgccctcaaag aggtccagga aggacaatgc agcagaagga 180
 actagttccg ctccggagta tgatagtcac cgctttatga gcgcggtaca ccagcagcgc 240
 ttctaagcca tcaaggtgtg gtcgtttctc caggagcgac gcgtccagct caaggacgac 300
 gagtatactg atttcc 316

<210> 19498

<211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19498

tctcccctat tntgctataa atagggggag atttgattat gaaaggggtt cagcccctta 60
 ggcacttctc tctctctctc tcgaaattgc tgaggaaaat tatttccgtg aacaaaatct 120
 aagccgaggc gctgccgcaa cgtttccgta atgtttctgt gagtaattac gtgaagattc 180
 tcgaccgttc ttcaagattc atcggttcgtt cttcgttttc ttcagtcttc aacgggtaag 240
 tacctcaaac caagcttttc aattcattct atgtaccctg ggtgggtccac attttgtttc 300
 gtgtattttt attctcgttt tcatttgctt ttatataccc cttttgatgt gcttaagcca 360
 tttattttaag tcatttctcg cttaaatctaa aaataaaata aatttccacc gatcatttaa 420
 attgtatcat c 431

<210> 19499
 <211> 398
 <212> DNA
 <213> Glycine max
 <400> 19499

ttatatttgt gggcggacga accctgatga ccacagtggc atgatcgctg gctgacctac 60
 accgatgttg tcagcagcct cttcacgggt cctcacactg acccttcctc ctactgaagc 120
 atgtcgcttg tgctaggcta gtgggcgcat accatctata aacatacacc aatgacttgg 180
 ctgacaccac ccacgagcgg gggctcttct cgcctatcct ttagggctcg acgacactcc 240
 actgagggac tggctcgggt actgatgata tgactatagt gctactttac cttacgcagg 300
 atatgactgt aagacatggt gctgctaaca ctgttgatca acttgggtacc cagagtacgc 360
 actcgtaggc ttaaatgagt ggagacacct ttgggctt 398

<210> 19500
 <211> 410
 <212> DNA
 <213> Glycine max
 <400> 19500

tgctctcggt gacgaagaca attgaataag cctctttttg cttttcacag gcgtcaacga 60

ttctcaaaat gaaggggtctg tgtttgaag tggcgatgag gtggagaaca acctcgggtgt 120
 cggaggtagt gttgaagatg gacccgctgt cctcgagggtt gggtcggagg gtgcggtagt 180
 tgacgagggt gccgttgttg gccacgccga cggagccgaa gcggtagccg gcaacgaagg 240
 gttgcacgtt tttgagcatg gattggccgg cggtgaggta tcggacgtgg ccgatggcga 300
 ggctgccggg gagctgggtcc agcttcgact ggttgaacac gtcggaaacg agaccaacgc 360
 cggatgatga ttggaggacg ttgttgtgaa ccgtaacgat tccgggcgcct 410

<210> 19501
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 19501
 agcttctcaa ggaagcttct taaggaagtt ttctcaagaa agcttctcaa ggaagctacc 60
 tagtctataa ataaaagcat gtgtaacact tggtgtaact ttgatgaatg agagtcttgt 120
 gagacacaaa tcaaagttca acttctctct cttttttctt ccttcaattt tgtgctcccc 180
 cctctttctt ttctccatt gaaacatcct tccaagcttc ttatccaagg ctcatcttgg 240
 tggatgaagct ccttcttcca tggttatttc cctagtggat ggcgcctcct ctcacctctt 300
 ctcttttgtt ttccgtgca tctccatggt gaaaaattac cattaaagga cctcattgaa 360
 gctc 364

<210> 19502
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 19502
 tctcaaagat gtacttaacc aggtccatct tggtatattt accaggtggg atggctcagc 60
 atgtattgtc ttagacgggtg ggacgcccag actaaagcac aacacgttct ttcgagcagg 120
 gagtagttca tttcataggc cgtgaacttt ttactcaagt agtagacagc gcgttctctc 180
 ttcccgact cgtcatgttg cccaacata catccaatcg actcatcaa aatcatcata 240
 tacaagatga gaggccttcc tggtagaac gacataagca cgagaggggt catgagacac 300
 tggttgatcc ttcaaacgc ctcttgacaa tctcattcc aacggacgga ttgggttttg 360

cgtaagagtt ggaataacgg ctcaacaatta gcggtgagtt gtgatatgaa tctggcaata 420
taattcaaac gt 432

<210> 19503
<211> 399
<212> DNA
<213> Glycine max
<400> 19503

agcttgctct tctgggcgag ctaagtggca agctcctccc ctattttgcc ataaataggg 60
ggaggagtga agaagaaaag gggtcagcct ttttggcact tctctctctc tcgaaattgc 120
tgaggaaaat tatttctgtg aagaaaatcc aagccgaggc gtttccgtaa cgtttccgtg 180
agtaattacg tgaagattct cgaccgttct tcaacattca tcgttcgttc ttogttttct 240
tcagtcttca acgggtaagt acctcaaacc gagcttttca attcattcta tgtactcgtg 300
gtgggtccaca tcttggttca tgtattctta ttctctttat catttgcttg ttataccccc 360
ttttgacgtg cttaaaccga ttatttaagt cacttctcg 399

<210> 19504
<211> 431
<212> DNA
<213> Glycine max
<400> 19504

tgccaccag ctgcccagg cgagcaaggt tgttttcttc tattcaacag ccttctggag 60
gaatcttctg gagggccaa gtgggtctgg ttgctatttg cccccatt tttactaagt 120
acacccctt gccttttttt ggggtattct ttttctgtaa agttacggaa acttacgaat 180
ttcgtaacga tacttgtttt ctttccgtaa cgttacggaa ccttgtggat tacataatca 240
tccccctttt gacttacgga atgttacgga acctactaa ttgtgcaacg atgcttccat 300
ttgatttccg gtatgtcatg gaaccttacg gattgtgcat caatattttc ttttgttttc 360
cggcattgtc cggaatttca caaattgcct aatgatgggt gccaaagcacc tcacaaggac 420
caaacaaaag t 431

<210> 19505
<211> 217

<212> DNA
<213> Glycine max

<400> 19505

tctagcttct ccctcttttc cctataaata gggggaggag ggaagaacaa aaacgttcaa 60
ccctcctggt atctgaggat cacttgaaat tagtgaaaaa aatcgtttcc gagaagaaaa 120
tcgaagccga ggcgcttccg taacgcgtac gagacgtttc cgtggttgat attgtgaaga 180
acttacgcca tccttcgttt gctatacgcc gatcttt 217

<210> 19506
<211> 379
<212> DNA
<213> Glycine max

<400> 19506

tgtcaagccc cccaacttgg acaagtgttg acttagtttt ttctgcctag gtgtctgggg 60
tggacatact tttggctttg caagtgagat ctgatgagtc atgtgagaaa agccattgca 120
tttgaagact ttccctttta ctgaccgctg gagagtgcct taatgataga catctcattt 180
tgtccattga tgcaggcgtg tgcatacacac tcgcaatact tttgcgtaca tgtcactcgt 240
ggatgacgca cacactggag acgtgatgca tgggtaagag gggctgtggg cgggtgcaga 300
aaattatggg accactctat cgccttacag ctaccgaaga gcatggctcc tctttatatg 360
gagcatacgc ttgatctgt 379

<210> 19507
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19507

agcttttatg ggatcaagga gtctactatg tgttcaacaa gatggatgag gattccaagc 60
acatcctaata agttaatggg ttagtggttg ctaaacaaca aaagttagc aagaataacc 120
taaaggctat gaaggtgtcc ttggaacaaa gcttgaagga aactccaaaa gtgggcgtga 180
aagccataaa caagagaaaa caaaaagagg ttggccaagt ccattgttga tgaagacctt 240
ggctctgaaca actttggcat ttcaaggaaa attanaaaga tcatgggtga aaaacaaaag 300

aagaacaaaa ccagaaaaca atctcatagg gatgaagaag aaaaggaaat ataggcaaag 360
aagcatagga ccaaagaag gcatgagtct attacg 396

<210> 19508
<211> 425
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19508

ntntctttnt ccattgctcc tcaatgacaa tctcttcttc ttcttcttat tgggcttgct 60
tcctagtttg gacctttccc tgttgctctc taaggaccct ttgaaccttt ttatcaagtt 120
caaaggtctt caaaggctta tcttcactag caacagtctt ggccagtttc ttctgcctcc 180
tttgtaggat ttcacttga tttacttaag gaatagggtt gttccttcta gtgtcaactt 240
tcattgcctt taggttaaaa gcaactgaagt gttgctatct ggcaatgaaa gttcccttgc 300
tggtgatgga atgcttggag tctcatcta gtctttcaaa ggcatggaat acctagtgtt 360
cctagaggaa gttgttgatg aggggtggcag agtagatc ttcactcct cccaaggcct 420
tcatg 425

<210> 19509
<211> 382
<212> DNA
<213> Glycine max
<400> 19509

ttgcacttga ggagggaagg aaatttgcag ctaatgaaca actctgataa ctacttgtac 60
tttatgactc tcgtgctaatt tctatcacag tgtaaatatt cttatatcag tttgtccaag 120
aacataatca tgtgcttaatt atcattcatt aacggtcacg gatctatcgc actattaacg 180
aactatggat atcagaccta ttgttaatta cattttgacc gtataaatat cttactgatt 240
caagcagata gacgcttaatt acgaagttta attaactcta atggctcctg gaggaccoga 300
atttgaacat gaattacatt gatcttgcac catgttttaa acacctctga cacactatcc 360
agctattatg catcatgctc ag 382

<210> 19510
<211> 430

<212> DNA
<213> Glycine max

<400> 19510

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tccacttgta tactgcatca gtaatatTTa atagctctat gttttccctc tCGTggatgt 60
agccttgatc aaaggtgaac cacgtaaatc tgtgtgttct ttctcatctc tctccccctt 120
tcaatttgct gcaaaaatctg tgtgtatggc atttctgttc tgttgcactc actggttggtg 180
ttcttgattg ttcttcatca cttccataac aagaatgata ttataacaca ccaggtaaga 240
ggaaagaaga agaaacaaaa taggattata aaatagacgc aaatgattat aatgaaaaaa 300
aaaagtgttt tacctatgat gaggatgaag gcaacttaga ttgagtttat gaaaaaggag 360
aggatgtggt ggtttccata ttacctagc aaaaaaaaaa aaaaaaaaag aatagttcat 420
aacgaagttg 430
```

<210> 19511
<211> 201
<212> DNA
<213> Glycine max

<400> 19511

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accatgacgc gacagactct atggccagac cgacatcatg agcggatgag ggggagccac 60
cttcataatg gggccatgtc tgagttgtac accgtgcaga tactgcaggg ggtataatcc 120
tatgcccgtc tacagtgggc ttattgataa ttgagccgga ctcttcctag atatagccga 180
ccaactgtga catatgatat a 201
```

<210> 19512
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19512

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agcttctcct tccaattcat tccaaatagc ttcttagttt ttatatctaa taactaataa 60
tctgatcata tactacaacg tccctagctt aatttgcaga ataatgttac atatatatgg 120
catcctcaaa ccacatatgg catatactat ttattttcat cttttacatg atgtatatct 180
ggaccgaaag agacacgggt gacgggtcca ccccatcatg aaccatttat tttttataat 240
```


gttgaaagaa ttggcatata tagtagatta attctaattg gtttgaccat gatcaaggta 300
tctgaatttt ttgtacagaa tgaatatttt agtactgtca ttgcaagaga ttattncgta 360
tgagaactat tcataaacat ccatcat 387

<210> 19513
<211> 437
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19513

tcacatgttt gagcggaactc atctagttaa acatcttttt gatcttgaag gattttctca 60
agttttaaat gatctttgga tagattcttg aaataacttc atagattttt agaagcattt 120
gagagaataa ataagttaca taaaattttca tgataagatt ttttaagaga cttaggggtca 180
ttgaaattta ccacatcttc ctagtctgat ttggatcctt caaaagttgt gtctgtcatc 240
aagcatatgt tggtctcttc atcagacgag gtgtcgtcta ggtcttcaca tgtgctcata 300
agccccttat tttctttggg cttaaagaat ttcttcttat cttgactttt ctcanaatct 360
ggacattcat atttgaagtg tctaggcttt ttgcattcat agcaaactat gaagcttttg 420
tttttattcc ttttttt 437

<210> 19514
<211> 368
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19514

gcttgtcgta tcctctgcaa gtccaagggg gtcgaaccca aaatctccag caagactgaa 60
aagcatactg tttatgtcaa aaacttgaaa agagacagta gcaatagcag aacaagatgc 120
ccaagagaag tgtacagcct cacgttccat caagatgagg tgggggatca agtcctggga 180
gccatgtatg tcgctgttgc gcccacac aagtttgctt ataacgtgga gtggcagcag 240
caccatcccc aagccacgat aatcttccag ctggtgaacc tctatccaag ctcttggtgt 300
tgaataaaga gccgggctga atggagaagc ttcttcctat tgctacgggc attggtntct 360
gattatct 368

<210> 19515
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19515

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atgctggtgt aagaaccgtg ttttcatttt gtttcttatg ttgngatcct tgatcatcaa 60
tcattttcttt ctggaatagc tgatgttcgt gatcggcaca gggatatgcg acttgatggt 120
gataacatgt cttatgaggt aaaatctcat ttctacatct ggatggaaat attaatatat 180
ctatacaacc atagtgtcag tttatccctt atatttcaag tcagtgtctt gcttttagaga 240
gtttctcatg tgacattcgt gactataaca ggagttgttg gctctggaag agcgcatctg 300
aaatgtgagt actggattga gtgaggaaac tgtattgaaa cacttgaaac agagaaagca 360
ctcggctgan aaagggcctc agattgatgc agaaccctgt tgtgcttgtc aggtaaacct 420
gact 424

```

<210> 19516
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 19516

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agcttctatg gaggtgaat ctttgagctt caatgaggtc cttcaatgat gattttcaac 60
catggagatg cagcgaaga taaaggagaa gaggtgagag gaggcgtcat ccactatgga 120
ataagccatg gaaggagaag cttcaccacc aagagagtgc cttggataag aagcttagag 180
aggaagcttc aatggaggaa aagaatgaga aggagagaga gggggaggga ggcacgaaat 240
tgaaggagaa aaagagagag aagttgaact ttgaagtgtg tctcactagt ttcacattcg 300
tcaaaattat gacaagtgtt acacatgttt caattatagc ctaggtcatt aactaaatga 360
aag 363

```

<210> 19517
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 19517

tgagcatgtc aacatgaagc atatntctta actgtcgtta actgatttac taaaaggact 60
acccaagatt tgttggaata ctcactctct ttgtgaagca tgttataaag ggaaacaaat 120
caaaactacc tttaaatccg gagatattgt ttccactacc agacctttgc aattgttaca 180
tatggacctt tttggacctt caagaacttt gactctaaga ggaaagaaat atggctttgt 240
catagttgat gactattcta gatacatgtt ggtatagaga aaacgggttat aactgtctgt 300
aatttattaa atctataagg taattgatta ttgtaacaaa gttaccaatt agattatcta 360
agtaatcaat taaagtgttc atccaatata tggaaaacaa ctcaagaaca atgtaatcaa 420
ttatatgacc tga 433

<210> 19518

<211> 401

<212> DNA

<213> Glycine max

<400> 19518

tcaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 60
gcagcacgaa attgaaggaa gaaaaagggg gagaagttga actttgagtt gtgtctcaca 120
agactctcat tcatcaaagt tacaacaagt gttacacatg cttctattta tagactaggt 180
agcttccttg agaagcttgt ttgagaaaac ttccttgaga agctagagct tagctacaca 240
caccctcttc ataactaagc tcacctcctt gagaagcttc cttaagaaga ttcctaaaga 300
tgtttgagct tagctacaca tacctctcta atagctaagc tcacctcctt gagatgagaa 360
gctaaagctt agctacacac cccctataat agctaagctc a 401

<210> 19519

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19519

tacatattgg aaaggtacac tttcgaaagt ctttactgtt aaaaaagctg aattttttta 60
catgagatgt gaaattggaa agatgctaata ctacatagtt cataacttttt tataaatgtt 120
tttttttttg ccaaaatatt tttccacgag agaaagtga gttgtaaatgg gatctgaata 180

aggtatcaac caagaaaaga aaatacagcc aaaaccaaag cagagagaca attagcaata 240
aaactaacta ataaaaactaa ggagtaagga accaccaaaa ttattcaggg tctctgtcct 300
gtgttgtaga tacattaaat aaatggcaag gttctaaaac cactatgcat aatctaacat 360
anaataaatt atataaataa atgcaggtac cttaaatttg atatggccaa gccaaagcttt 420
gaacataatc at 432

<210> 19520
<211> 400
<212> DNA
<213> Glycine max

<400> 19520

agctttttat gggagtcaag aaaatgaaag tgctccgaaa ccattagctg gaaaagaaga 60
ttatgatcgg gtcaactaca tcgtaactat ctttggaag acccaaaaga agccatcatc 120
tgagctaaac atatggaaga aaagggtcaat attctttgat cttcgatact ggtccgatct 180
tgatgttaga cattgtatag acgtgatgca tgtggagaaa aatgtctgcg atagtttaat 240
tggcactctt cttaacatta aaggctagac aaaggatggt ttgaagtgtc gtcaatactt 300
ggttgagatg ggtatacgag agcagttgca tccgatctca caagggtccac gaacgtatct 360
gccccagca tgttagataa tgtcaacaaa agagaagtga 400

<210> 19521
<211> 434
<212> DNA
<213> Glycine max

<400> 19521

tgttgtcttc gtttagtttc ttggtttag atatcttttt atacaatccc accttgtgat 60
atccaccaga attgttcgca tatgaagcat acatcaatgg ggggtataat tccaacctta 120
ttgaaaaatt ttatttgcac aatatcactt gtgctcaatt tcttgtgacc aagtaacatt 180
gcacaatcca tttcatcaa catgtcatgg ttgtgggtcaa agtcaacata tgtaacatac 240
caatgatcgt tactaaagtt aacgtgaaca tgaaacctag cattgcaacc accttgtatc 300
atcttttctt cagcttctt agttttcaat gtcaaaccac tatcatttca atatccaaca 360
tgagagcaaa taaaagtttg ttgtaatggt ttcctataa tgtttctcat aacaatactt 420

ttacggacaa agaa

434

<210> 19522
<211> 384
<212> DNA
<213> Glycine max

<400> 19522

tttgtttggc ttggcttggc tcttaactgt gttgccctca aagttctgaa cattatcttc 60
aacatcgtgc actgggttaa ggaaaaaat tattcaagat cacttggttag cgtctttggc 120
attacgtggt atatggtttc ttgactact ttataatgaa attataacgc tcattttgat 180
tctatttact tgattaagggt tttcttctaa aataggcaca gtctgtttgc tattgattct 240
cttgtttggg aaagggactc ttgatttaat cttgaaatca taggaatttg acttctctaa 300
tatgtgtaac ttactttaag ctcatgggtg cagaggaaga acaatacaaa tagatcagtg 360
ttatgtgtct tatattgttt ttat 384

<210> 19523
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19523

tgttttaaaa ataatgattn tagatcaact aatacgtttt cataggaaaa tttgaacacg 60
aggggtgaaat cttaattcag cacacaccca tcattgggat ttttaattta cattagaaaa 120
tgtgatctcg aagttaatt aattatttta gaggctttta aagttatgaa aaattatgaa 180
agcttaatag gttatatata tataaaaatg tacatcatat cgatggaaaa ttcattttta 240
atattattct gcttctgcct cagctccatc tattactctt gctcaacaag aaaatattag 300
cagcttagat attgagcatt tacaaagtca tcttggacac aagctttctg gtcagaaata 360
tttactagta ttggatgata tatgggggtga tgatcgtgca caatggatag tgttgaaaga 420
tttaataaaa g 431

<210> 19524
<211> 402
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19524

tagcttctat actttataca agaatgaagc tctgatacca cttgttagac gagtggcctc 60
agatatctta tgaagggggg gttgaattaa gatattccaa actacttccc caattaaaat 120
ctatttcact ttttattcga gttataaatt cccttaataa tgaacttctt aaatattgat 180
tcaaataaaa caatttgaat atgaatataa agcaataata aacaaaggag attaaggga 240
gagaaaatgc aaactcagat ttatactggt tcggccacac ccttgtgcct acgtccagtc 300
cccaagcaac ccgctngaga gttccactat cttgtaaatt ccttttaca gttctaaaca 360
cacaaggaca atccttcctt tgtgtttaga attccattac aa 402

<210> 19525

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19525

tctgggtgga catcttgact tgctttccaa tctgactttc accacagatt ctgccttctt 60
ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgcctc 120
ttaagtgcag atgtccaaat ctttgatgcc atatattgac ttcattcttct ttggagacta 180
gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
tgctgccctt cattaggact tcaactcttct catttgtcac caagcattct gactttgtga 300
agtttacatt gagtccctca tcacacaact gactgatgct gatcaagttc gcagtcagtc 360
ccttcaccag cagtactttg ttcagactan gaagtccttc atggactagc tntcccatte 420
cagtgatc 428

<210> 19526

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19526

tttcatgcta gcttgaggcg agcgacatga agtttgctt gaattgggtt aaactttgtc 60

aagagatctt cttctttctt gaccaattct gcttttagatc gctctgtttt tttttttatt 120
ggcccttgta ttagcataag tttttcctta gccttctgaa aacctttttg agcttgaatt 180
aacttatttc aatcctgctc tatagaagac tctatttcaa caatataaat tgtatgttga 240
ctatgtaatt gatgagcttt aaaggcatta ttgaagatat taaggaaaga ttccattttc 300
ctttngaate tcataacca ccaagttttg aaatttgaac acctcattga ttgattgttg 360
aagttgaggc ttgtaattcg gattggaaag agagtctt 398

<210> 19527
<211> 412
<212> DNA
<213> Glycine max

<400> 19527

tccgcttatt agtgcacaac tccttcttta atttagcata tcttggaatt ttctttattg 60
catccagcag agatatgttt acctctactt ttctaaatgt ttctaataatc tccttctctg 120
cctcttccat ttttttgttg gaaattgctc tttgagggaa tggaagaggg atatgttgct 180
tttgtaaatt agaattacca gtggaagatt cacctgcata gaaattgtta ggtaacttac 240
tcttttaaatt tttgtcatca tctttttctg gagtagagtg aggttgggta ggttcatttg 300
cggatgagga agatgctact ggtaaggctc cttgacactg ctttctgac ctcaatgtaa 360
tggcactcac atttttggga ttctggacag attgagaagg taatcagtca ga 412

<210> 19528
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19528

tataagaaca aaatngccta atcattttct tttgtatgtg aattacgacg catcaaaaag 60
aatcaagcca aggctattgt gcaagcaatc aatggggcaa aacacaccaa attattatga 120
tgatggatgg ctcaaattct caciaaggta aactcatcac tttcaaattg agctttcaaa 180
actatcatga catgtagaga agaatcaagg atttctactg tggcatttag ttttggggctc 240
taggggtggg tagtgaagtg agtcatacca tgatgggtca aatagatttt ttacttaata 300

gattcacctc cattattaga gtaaaatgag acaagtgagg tattgaaata tttttcatgc 360
aagactctaa attttggaag aatagaagag acatctaatt tattctttta tggatacaac 420
caacaata 428

<210> 19529
<211> 396
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19529

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
gtggatggcg ccgcctctta cctcttctcc ttgtctttc gctgcatctc catggtggaa 120
aatcatcatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
gcaagcttcc atcaagtggg aatcagagca caagagcttc aattaggtgc tccttaaacc 240
tccattaatt tttttgcttt accttctctt ccattattgg ttcttcattn tttctccatg 300
tatctctca catgtcttgg tctanatggt gttaacatga ttcttttagag tttcaaccaa 360
ttaaacttgt tatagaagct agatttgant ttctat 396

<210> 19530
<211> 424
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19530

tccatcaagt ggtaatcaga gcacatgttc tttttcttgt gctccgtaaa cctccattaa 60
ttntttttgc ttaccttct cttccattgt tgtttcttca tttttttctc catgtatctc 120
ctcacatgtc ttgtgctaaa tgtttttaac atgattcttt agagtttcca ccgattaaac 180
ttgctatata agctagattt gattttctat gggtcaaatt tcttggtttt gttcttgaac 240
catgaattgt gttgagttta gggttccttg agttttgtct tgttattttt tgtggctgaa 300
acctaaacca taaaattcat acaaaaatat taaagtagaa taaaagctca taaatctaga 360
gtgacttgtt cacctattgt agttttgtca tagaagtcac gtctagtcac gatacttgtc 420
acat 424

<210> 19531
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19531

agctttaatt gattaccatt gatgtgtaat cgattaccag caatgaaact cttgaaattc 60
 aatttgaaaa gtcattgaccc ttcaaaatat aactgtgtaa tcgattacca gtgaagaatt 120
 tcagaaaaag ctttttgaaa agacacattt cttgaaatca ttntgaaaag gcacgaaggg 180
 cctatatata tgtgtgtctg acttcgaaaa gcaagagaga gattctaaga gaacttaatt 240
 gtcaaagtct ctctcaacaa ctcttgggca aacacttgca aatctattga gaattcatct 300
 aggaacttca aattgtatta tcatctctaa aag 333

<210> 19532
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 19532

tgtgcatcca atagcttgat gaggatgtcc cttatgttct taaaactaga ctgatccatt 60
 tgcttccaaa gtttcatggc cttgcaggtg aagacccgca caaacatctg aaagaattcc 120
 atattgtctg ctccaccatg aaacccccgg atgtccagga ggatcacata tttttgaagg 180
 cttttcctca ttcttttagag cgagtggcaa aggacttgct ttattacctt gctccacgat 240
 ccatcacaag ctgggatgac ctcaaaagag tattcttaga aaaaaaattt cctgcttcca 300
 ggaccacgac catcagaaag gatatttcag gcattagaaa actcagtgga gagaacttat 360
 atgaatactg ggagagattt aagaagctat atgccagttg cccgcaccac cagattttctg 420
 agcagcttct tctccaata 439

<210> 19533
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 19533

cagtttttgg tagacctaca ctagcgggtga tgcactacga ggttgatcct aatgatcctg 60

atccactcaa ggatttatta cggctacgtg atcaactttt gagcaagctg aaaagtaatt 120
tactaaaggc tcaacaatat ataaatatgc gagctgatta gaaaataaga gatgtgccat 180
ttaacgctgg agatatgatt ttagttaagc tacagcctta catgaaacaa tcagcggcctt 240
tgaggaagca tdagaagcta tgcatgcgct attttgggtgc gtttatagtg attgaaaaaa 300
ttggtacgat tgcataataa gaacaactgc ctgagtc 337

<210> 19534
<211> 441
<212> DNA
<213> Glycine max
<400> 19534

cttgcgattt atccagctgg aatccataaa tgatgaggtg atattgaaag cttgctgttt 60
atgcaaaaaa atggaatcca gaaatgaagt gacattggaa gctactctca atattgcaca 120
atgtttcata gcctctcttt gtcacaatag ttcggcgatg tgaatcaatc atatcaaact 180
ataagatcga catatcctga aaactagccg aaccatagcc tgcatttttg aattcgaatc 240
tcaaatttgg aaatgggaaa ggggtggaagg aagaagcaac agataccttg cacgctcttg 300
ctgatggaag attgaggaag ctaacacgtg ttaggaagaa ataaaaaatt ggaaaaaatg 360
gatagcacta acacgggaaa tcggttggtg tttattacta acatacagac tagtactatg 420
atatcataat agtctttagt c 441

<210> 19535
<211> 389
<212> DNA
<213> Glycine max
<400> 19535

agcttttttg agtagaaaca tgggaccaac tcattttatt tcacaaagga agtcgtatct 60
agtcaaggctc tgagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120
gactatcata tgctgacaat agccgagaag cccatgaatc tcttcggggg cggagtaggt 180
gtctgccatc gccttggcct tggctaacia tcggggaagt tcttgactcc cgttcaagggt 240
aagagcatac cgatccatcc acatggatgc ctcttgggtg aaagagtcga tcaccctttc 300
tctagcctct ttttgcgcgt atacttgggc atattcgctc gcaatcctat gtccttgggc 360

cgcggtata cctaactctt cttggtact

389

<210> 19536
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19536

ctcagctgac cagaattatt gatgggtagg tgtgaatddd tttgttcctg ttgcggagat 60
gatcgtacag cgggtgaacc ataagcggaa gtttcttttg gtgaggtagc catggaaaag 120
catagcgddd ggaatgattt cgtatatctc agaaggctat tgggaaatgc tggttaaaac 180
acgaatgcc aagcagatata aatdddtaatg aagaatgtat atgggcgtgt gacgcaacgg 240
tcgaattdgc tttgcgggtga acgtgctatt aatgttaagt gattcgttdg ggcacgttca 300
gattgcagta gctgctataa tttctctagc agacaaatgc ccatcttgcc cctcagtdtt 360
tcaaactgat tagcatccaa agccttdtggtg aaaatatctg ctattdngctg ctcagtgcca 420
acatgctcta gtgtgatcac t 441

<210> 19537
<211> 401
<212> DNA
<213> Glycine max

<400> 19537

agcttctaag aaagcttctc aaggaagcta cctagtctat aaatagaagc atgtgtaaca 60
cttgttgtaa ctttgatgaa taagagtctt gtgagacata cttcaaagtt ccacttctct 120
ccctcttdta ttccttcaat ttcattgctc ccctctctct tctctctccct ctttcttdtc 180
ctccattgaa acatccttcc aagcttctta tccaaggctc atcttggtgg tgaagctcct 240
tcttccatgg cttattccct agtggatggc gcctcctctc acctcttctc ctttgtcttc 300
cgctgcatct ccatgggtgga aaatcaccat taaaggacct cattgaagct catagatcca 360
gcctccatag aagccccaca agccagcttc catcaagtgg g 401

<210> 19538
<211> 436
<212> DNA

<213> Glycine max

<400> 19538

gcttgtcatg atccgtctct ttggtgcaaa attgatatgt ccttacttaa cagcttataa 60
ttttttaaca taccaaataa tcagccatga gcttacaagc gtacaagtgg aaaaattact 120
caactcttaa agtatgttct acgtctgagt aatggaaata catattgctt agtatttaac 180
tacaatgttt acttgactga tgagtagttc atcatagata ttgaaaggta acattgtctc 240
ttattcttaa ttaccctta atttgtacat gcattattaa ataacccttt aaaacaaaaa 300
tacttcatca atattagtgc tcaagtctaa attaaatgcc acgtataata tttatataaa 360
agttgttgtc atatgggatt gataagcgtg cgtgtgcctc gttatgttag gaccccaaat 420
ttgaaacaac tagttc 436

<210> 19539

<211> 496

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19539

gatgatcgnc natgaaccct ttggatgaac gcgatactat agaacactca agtgggaccg 60
tggteccaga ctaataatca gaccgacgat actattggga ccgtgggtccc agactaataa 120
tcagaccgac gatacgagtg ggaccgtggt ccagctctga ttatcagacc gacgatacaa 180
gtggaacagt gggcccagag agaatattca ggccagttat gctttctggc ctgtaacaaa 240
ggacattaag taaagacaga taaacgtaga ctaaaacgtg gtcgcatcag ggtgctggct 300
tttcaagttc cttaagaatg gcctcaattt tctctataca ctcagttgga acacgagacc 360
tgtccaggtt aagcaccatt ttatcgccct tatacaatac tgctgctcca ggagcaaact 420
gatgtcgaga gcttaacta gttcttgatg cagatgacgt ttttaagcaca gaagttaaaa 480
gagtgataac ttcttn 496

<210> 19540

<211> 394

<212> DNA

<213> Glycine max

<400> 19540

tttcttatgc tgcaaacatt tacaatagac ctctcaacc tcagcagcaa aatcaaccac 60
 agcagaacaa ttatgacctc tccagcaaca gatacaaccc tggatggagg aatcaccccta 120
 atctcaaagt gtctaaccct caacaacaac aacaacaaca acaacagcct gctccttctt 180
 tccaaaatgt tgttggtcca agcagaccat acattccttc accaatccaa caacagcaac 240
 agccccagaa acagccaaca gttaaggctc ctccacaacc ttccctcgaa gaactcgtga 300
 ggcaaagtac gatgcataac atgcaggctc aacaagagac cagagcctac attcagagct 360
 taaccaatca gatgggacaa ttagctacac aatt 394

<210> 19541
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 19541
 tctctaggac cttaggcaaa ccttcttctc atccttcatg atcaaaactgc ctactcgcca 60
 ttggtccctc tctctctccc ggagcttaag ctgctgttta ctgccccaca gagccctctg 120
 aaatttggtc tggctgtgtt ctccctacg agcccttttg gtctctcggt ccaaggcctt 180
 ggtggttagc atatttacat ctctcagttc ggcattctcc tttcggatct tgagagctgc 240
 tgatttgaac ctttctttga ctgtttgggc ttgctcgagt tctgtcctag aggcattgcac 300
 ctcttctgtc tctccggtg cctcaacttc ctccctgta aagggttctca aactcgggag 360
 ccaaccagaa ccttgcattg gggctgtcaa ccacttacgg tagccgctga tgggcccgc 419

<210> 19542
 <211> 301
 <212> DNA
 <213> Glycine max

<400> 19542
 agcttgagag gattgatggg gacccggtgt tgagagaaac gatgatatgg gctacgtggg 60
 agtacgcgag ctgatttga ggtgggcaac aggggatggt gggtttatgc gcgcattgtg 120
 gatgtggaaa aacttggtgt gcaccatcgc ccgaccgcca cctagtacca catgtgatgg 180
 gtaccccata atcctacaag cttgagatga ggaagtgttg aagggtgaaa cttcctgctt 240
 ttattgttga ccacagagtg gtaccttgag atatgtcgcg gcggtcacga gaccttgggg 300

a

301

<210> 19543
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19543

acaaactcaa gcttaggaac ccaagctctt agcttcaatg caaggaaaca tatttatgcc 60
 taataacctta actnttggtt gtggaagtag gaaggcatga aaattatgac ttgcttgtga 120
 gagttnttac tcgaatttgg gctgccccat gaggggtaat ttgcacctaa gtagtgtgga 180
 aaatacttta caatggtatg taaatatgtg tgtaaataata cgnnggcattg aaaacacctc 240
 tcaatggtgt gtatatatgt gaacatatgg catgaaattc cttgcaaagc gtgaatgagt 300
 atcttcctaa atgaatagag gtcgcttcct aatgaatgt atgatggcat ggaattccct 360
 ttttacatgc aagtatgtgc atgacgtaat tagctttcca atatgcatat aaataaatgt 420
 gagtgaaaca atgaaagt 438

<210> 19544
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 19544

ttgcttgtga aataaaagtg tcaatatgtg tagtgtatac actggggcgt cgaaaattta 60
 aagaaaagaa tcaacaagat tgaaaggcta atatatcctc tataacaaaa tcacaaccac 120
 acaatattta tgctccttat aaagaatcct aacgcctaag gtacacactc aacacaagaa 180
 cacatcaatt ttacaacaaa ttcgcatcga aacaccaatt ggtccatcaa acacactaaa 240
 tccgtgatta aaacaaaaca acacatagtt gaacttcata aaacattcca aaataaccca 300
 taaattgatc ctcgatgtag tcgctcaagc gttattcgct agcaatgaca ttactgggtgt 360
 tctctaaagc tcctcttccg attgctct 388

<210> 19545
 <211> 396
 <212> DNA

<213> Glycine max

<400> 19545

tcaagggttat gacttcatgt tgctcatcct atctctaata tacacaccac aaattctcct 60
catgttagcc tttgcctttg agttccaccc atatcttagt gcaaaccaag aacctgagaa 120
gattatactc attctttacg gctgggttag gttgagtgga ttggaagcaa gaaaaaata 180
ctccctccgt tactatctac aaaagggtgt agtcgaattt aagctaatta agtattaaca 240
agtactaata tcaattaata agacattaag aagtaacagt aacaactata aaaaatagta 300
tcaattatta atcatcaatc atgcgtcatc aatatatata ttatcttatg tataaattat 360
aaaataagat cttatcacat aacaatgact atgttc 396

<210> 19546

<211> 395

<212> DNA

<213> Glycine max

<400> 19546

ttgcttttca ctttataaag ggagagttta gtatgaattt tgatgatacc atctgatgta 60
attctacccc ccaagggtat tggataaaaa acttcaagaa gattgagcca gagatgtaag 120
agaaggtcct aggattctca tgagccttat ggtagatttc ggacccatgg gctaagtatg 180
agctcactta tctttgtaca tattagatta aggtttcatt atttttgtgc cttgtattta 240
gagctccata atgtagatag ggtaccctag agatatagga attttcaacc cttgtatttt 300
aaggcaccta gactagtctt tgtattatgg gtagttttgt aatttcactt gcattaagtg 360
aatatttgat gtgtgtgttg ggaaataaat ttaat 395

<210> 19547

<211> 411

<212> DNA

<213> Glycine max

<400> 19547

tgcataggat aaattggagt ggaagccaag actgagtttt ctgagacata aacaacatgc 60
cctatttaac aacttacctt ttcaagaggc caatctagat tgcaccttct ccacaacatc 120
atcaaagtca aatttagtca ctcaagtcagt tagaggtttg aaaccaagt acttcccaag 180

tgattagtgc aactaatctc aagaatgttt gaaatctcat cttgaatcct ttgaggaaact 240
gcaagagagc aattgtgaat ataattatct acattcactt taagaccaaa agccctacaa 300
aattcatgca gaaccaaatt cacaactcta gcttgatcaa ttgaggcctt acaaaaaaag 360
agaacatcat ctgctaaaaa agatgagata agggaggacc cctcgagata a 411

<210> 19548
<211> 393
<212> DNA
<213> Glycine max

<400> 19548

ttgcttgttt agtgatttta agcttttcct tcaagacata tgcactttgt ccctccactt 60
gagagtcttg ccatatctct ttgactacct catgaaaaga tggatcttat aaccaacaag 120
tgagcattct aaatggttct ggacccaat catagtgttt atttttaacc aagatagggc 180
aatgatccga aacgtctcta tttagaacct cctgtattaa tccttgccaa acatctagcc 240
accccttagt gcatatgact atatcaattc agcgttttagc tccccattta tacaatacca 300
agtgaatttg tggttgatca tatgaacatc taaggatttc aagttttcat ataggcattg 360
aattcctcta tttcctatgt caactatttc tac 393

<210> 19549
<211> 423
<212> DNA
<213> Glycine max

<400> 19549

gacctaaagt actaacctta aaaatgacca catcattatt tagatctgtt gtttctttag 60
ctttttacgc attaatgtct taacgatata ttactcactt ttacttttta taactttaaa 120
caatttttct cttcaactca acaactttta atagagggct atatcaagaa taattctttg 180
tgaagttact ctcttcaata atctataatt atacatacat acatatatat atatatatat 240
atatatatat atatatcaca ttaaattaag tttatttaac agagtatcat ataattgcaa 300
gatttataaa cttaattaac tcaataaaaa ctctcagttc tatggatgaa taaaatttaa 360
tacagagacg atcgagactt acactaatct ctgaagatac acacgtgcat cttcctttat 420
tat 423

<210> 19550
 <211> 51
 <212> DNA
 <213> Glycine max

<400> 19550

agcttggtga tgtggaacta ttgcttgcac gtgggtgtgt ccgtcgcttg a 51

<210> 19551
 <211> 188
 <212> DNA
 <213> Glycine max

<400> 19551

tgtcacgcaa gctttcatca ccaactagcc ttattgattt taactgcaca ggcacttta 60
 gggcccaatg agtcctcgat gcttatatca cgaacttatg tacgctcaac cttggctgac 120
 gatataaatg gtgatcggaa ccataagtag atatgaaata ctttcaacct tggccgagag 180
 aggttact 188

<210> 19552
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19552

agctttcttg gaaaatgtta ttgttttgaa ggcaatgctt agaggctttg agatggcctc 60
 tgggtctgaaa atcaactatg ctaagagtca attcgggaatt tttggagatt atgttaactg 120
 gtctcaagaa gctgctcact ttctgaactg tagacagatg gagattccct tccactactt 180
 gggcatcccc atttgggtca gatcctcaaa tcaggtggta tgggagcctt tgatcagcan 240
 atttgaagct aaactcacta natggaacca gaaaagctta tctatggctg gcagggttaa 300
 tctgataaat tctattttga acgctntacc aatctatcta ttatccttct ttaagttacc 360
 ccaaagaata gctgata 377

<210> 19553
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19553

tcncttctt cccacgttct tgcccttgaa acctcacctt ggtctcacta ctcttcacat 60
 cacgatgttc ggtgtccttg aagaggtgaa cctcatctcc tctatcttct tctcttcaaa 120
 caatcacgcc aaataaaacc cttttgacaa cgagtgtctg tcgcgaagat aaaaaaccct 180
 taccgaaccg gatgagtaaa aataagacgc acaaaggaaa atgtatccta tgcaataata 240
 acggtggacc taagttcgaa tatcaaactt agaagactag ttgtgttccc aaataatcaa 300
 tttagcaaca attacgcaaa ttgagtttta tcaaattaag aaagattggt tttgatcaat 360
 ttactcttta acgaagagaa gaattaacac acaagaactg tgtgagaaac atttataatg 420

<210> 19554
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 19554
 agcttgatat gaggaagtgt tgaaggggtga aacttcctgc ttttattggt gaccacagag 60
 tgggtacctg agatatgtcg cgggggtcaa gagaccttgg ggacgtcaag tgggggttcta 120
 ttgcccaaaa ccaagcttga ccaatccga cccaaccggt gcatagtcga tcagtgagaa 180
 cctatgatgt acctaaacag gcgagctcct ggcagtcaac agataaaagg agcaaagacc 240
 acaaagcaag gaggcttggt gtggctggcc agttgtgaaa cttgattgat atgtgagata 300
 tgggtctctg taatcgaata ccaaggggtg gtaatcgatt acaaggctta aaaatg 356

<210> 19555
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 19555
 tgcgtcacaa ttcatgtgta cagtcaaagt gccattcact tagcaaatca ccaaattgtac 60
 catgagagga caaagctcat agatgtgaaa ctacacttca tcagatatgt gattgaatct 120
 gagaagggtga aggtagagaa ggtttcaaca taagacaacc cgactaatat gttcacaaaag 180
 atcctctcta gtgtcaagtt caagcactgc ttggacttga taaattgtga agatgcctaa 240

agcacattgg ttgaagtgca gccttgaatc acaagggtaca cacttgctga tttagagtca 300
aagtggagat ttgaggtgtg tgactcagaa tcacaaatga cacaagtgat aatactatag 360
agtaatgatg tcataactgt tttcacttat tataactgaa ttggggttgg caccaaagca 420
tagctagagt gttcatatat att 443

<210> 19556
<211> 389
<212> DNA
<213> Glycine max

<400> 19556

agcttgtctc atcgtttatg cgagacggag accaacaatgc tagctatcat cgccaagtac 60
caagaagagt taggtctagc cgcgggccac gagcatagga ttgcggacga atatgcccac 120
gtatacgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180
atgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttcc ccgattgtta 240
gccaaggcca aggcgatggc agacacctac tccgcccccg aagagaatca tggggttctc 300
ggctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ttaggaaact 360
tgtatgggtct ctaagacctt gactagata 389

<210> 19557
<211> 431
<212> DNA
<213> Glycine max

<400> 19557

tgtacgcaca tcgttcgctg gtatgatatc cactccacaa tgtttgaagt ataggagagc 60
ttcaacccta taacgcaacg tggcagacaa aagtgggcag taaacttgaa tggtcgtcat 120
tgtcaatgca gaaggatttc tgcgtttcac tatccatgtt cacacattat tgcagcttgt 180
ggttatgtga gcatgaacta ctaccaatat atagatgttg tttatacaaa cgagcacatc 240
ttaaaagctt actccgcaca atggtggcct cttaggaatg aagcagctat tcctccttct 300
gatgacgcat ggacacttat ccctgaccca actacaattc gtgcgaaagg tcggccaaaa 360
tcaacaagga taagaaatga gatggattgg gtcgaaccat ctgagcaccg accaaaatgt 420
agtagatgtg g 431

<210> 19558
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19558

agcttgtgct ccaacactgc ataggaagtg atgatttcgt tgcttgcagt gtgaaccaac 60
 accttgcgct ctgagccagg gttctccacc agcctcacca caccgttctt gaaaacccaa 120
 accccagaca tattcttagc ttagaaacaa gaactagagg cacaacaaat tgaagaataa 180
 gaagaacaaa ttaataccaa gtgttttgag tgtttacttt tgagtgttct tgagttagt 240
 tgcaatgcaa gatggggagg ggagtatggg gtattgatgt atatatagtg gtggtgaatt 300
 gaagtcatgg gtaagatggg ttttaattnt tttttttata atgtagaaat aataaaaaact 360
 acatggtggt gataaggaca gtatattgag atg 393

<210> 19559
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19559

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 atgtctttct tgttattaat taagagcttg gctatgggtgc aaagtaataa gctagccttg 120
 atggatctgc aagctcagca ccaaggcttt cttcttctat gatatctttt atttattttt 180
 gttctttatt aaaacatggg caattaatca tagattaata atttattagt ttttttttta 240
 actttcttca gcttttgact aatacatatg tcctttgcat tggctgcaaa ttgatgtgtc 300
 gccgcttgca atttggttaa aaaataacct atccttagaa cagactaaga gacacagaga 360
 tgtaggggat atttttattc aagttatgtg ctagggttta gagagaaaat attanaaaat 420
 aaatgtccgg atagataatc cactgtcata tgggactgat 460

<210> 19560
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19560

agcttgtatg gttaaagtct cacgattgtc acgtgctcat gcaacaattg ttagtcgtgg 60

ctatacgaga catcttgcca aacaaagtaa ggtagcgat aactcgctg tgcttttttt 120

ttccatgcta tatgtagcaa agtcattgat cctgtcaagt ttgatgagtt ggaaaatgag 180

gccgcaatta tactgtgcca gttggagatg tattttcccc ctgctttctt tgacatcatg 240

attcacttga ttgtgcatca ggtagagaa atcaaagtgt gtggctctgt ttatctacag 300

tggaatgtacc cgattgagtg ataatgaag atcttaaaag ggtatacaaa gaatctatat 360

cgtccagaag catctattgg tgagaggtac att 393

<210> 19561

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19561

ntaagtntga gggagtttga taatgggtgt gcattcctat atttgcaatc tatttcacaa 60

caattatctc acttttcctt gaatcgtagc taagtttgcc cttgtttaag ttaggggaata 120

tatataatta gttagatatt ttcatacagt taaaatttag aaaacttatt agctttttaca 180

tgttttttaca gtaattcagt catttttagtg cacctggaag gaaattgagg gtttggaagt 240

gaaaattgat cactcaatga gtttgccaag tagcttaact aggaagccat attagaagaa 300

gacacgtggg agctgggtggc taagcaagaa gtctatctct cttagcagat ttctcttgag 360

gaagccatgt caacagcatc aaggtcgtt gagtgatgca gcctcttttg aagaagaaaa 420

aaagtgatcc catganaaat t 441

<210> 19562

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19562

agcttcccag atccgatcat ggaaggactt ggcaactgcc tttattaggc agtaccagta 60

caatacggat atggctcccc atcggaacca gcttcagagt atgactaagc gagagcatga 120

gtccattaag gaatatgccc aaagatggag agatctcgca gcccaagtcg tacttcccat 180
gaaggaaagg gagatgatca caattatggt agatacgtta ccacggttct actatgaaaa 240
gctgataggc tacatgccag ctaactttgc ggatctcgtc ttgcgccggag aaaggattga 300
atccagacta cgaaaaggca agttcgaata tgcttccaat gtggccccc aacaacaatag 360
aagagccnca gtaatgggcg cgaggaaaaa gga 393

<210> 19563
<211> 440
<212> DNA
<213> Glycine max

<400> 19563

ttccctttgg catcatcaaa acattcagct tgatcctttg tctacataga tgactctcaa 60
aaagcacttt ctaaaagata agatcgaatc aaaagtcact aataagaaag aacaagaaat 120
ggatattata attttaacaa acaaaaactga tttcatcaat tatcaaagt ggtaattgat 180
taatttgcta aatttcctct ttgttccgca tttccaaaa catggtaatc aattacaaat 240
tgtgggtactt gattatctcg tttcacaaag agcttctcaa gcttccatgg tttcgaaata 300
atcaattatt ttgacacaaa gagctattaa agtttccaga tgtgatggaa gcttgcttgt 360
ggagcttcta tggaggctgg ttctttgagc ttcaatgagg tcctttaatg gtgggtttcc 420
accatggaga tgcagcggaa 440

<210> 19564
<211> 318
<212> DNA
<213> Glycine max

<400> 19564

tatcttatgc gcatatttac ttacaaatgt tctcttgac aagacattct attaaccgaa 60
aaaatgcacc catatacaat caaggcaact cggttaccta gattatttac acgtatttcc 120
aagggtgatt tgttacttac atcacacaca tctccttggc taaattcaca tacatgcata 180
cccatagcat tatggggtac caaaaattgc acatgtacac ctcttggtat ttctaatacc 240
tatacataca ccaactttat gatgaatctt gactatctac acaataaggt gctacattca 300
tgctctttca agttttgc 318

<210> 19565
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19565

tgttgtcatt aaatcttaca tgaattgtct cttccatagt caaggtttnt gatttgtaca 60
 ctctatatgc cttggatgat tcaaagtatc caatattcca aaatcacatt ttgagtcaaa 120
 ctttccaagg ttatccttgg tgctgaagat gaaacactgg catccaaatg ggtgacagtc 180
 ataaatggtg ggcttatgtc cctcccacaa tacataggaa gtctttttta agattgacct 240
 tatataaatt atgttctgta aataataagc agtgattgct gcttctgccc ataagtgttt 300
 cagagttaag tagtcgttaa gcattgttct tgccatttcc tgaagagatc catttttctt 360
 ctcaacaact ccattctagt gggatgttct tggagtacac aaattattat aataccattc 420
 tctt 424

<210> 19566
 <211> 243
 <212> DNA
 <213> Glycine max

<400> 19566

agcttgtatg ctaactggat gcattgggta acttggtaac ccaactggcc ttgaaccaaa 60
 aatctgtacc tgttgcaagg gtctgtgggt tgtgctcttc tgctgaccac catacagacc 120
 tttgcccttc catgcaacaa cttggagcaa ttgagcagcc cgaagcttat gctgctaata 180
 tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaaa aattatgacc 240
 tct 243

<210> 19567
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 19567

tgagatgagg aagtgtagaa gggatgatact tcttgctttt attcgttgac cacagagtgg 60
 tacctggaga tatgtcacgg gggtcaggag atcttgtgga cgtcacgtgg ggtgctattg 120

cccaaaacca agcttgacca atccccgaccc aacccgggca tagtcagcca gtgagaacct 180
 gtgatgtacc taaacaggcg aggtcctgac agtcaacaga taaaaggaac aaagaccaca 240
 aagcaaggag gcttgtgtgg tggctggcca actgtggact ttgattgata tatgggatat 300
 ggccctctggt aatcgattac caaggggtggg taatcgatta caaggcttaa aaatgaagac 360
 aagagactaa gatgggtctct ggtaatcgat taccaagggg gtgtaattga ttaccaggct 420
 tga 423

<210> 19568
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19568

tgctttatga atcaaaattt gtcgcaatga gtcattcatt ttactaattt atatacagtc 60
 catgcatgtt ttcttactgc cattattctt tgcagccagt tgaactttgg agtggtaagc 120
 agctatttag cattatactg cgccacatg ctaatatgag agtctatgtg aatcttactg 180
 ttaaggagag aaactacact gaagacaaga aaataaaaga caagaaaata gaatggaaaa 240
 cattgtgccc aaatgatggg nttgtttatt ttcgtaatag cgagttgatc tctggacaag 300
 ttggaaaggt tactttaggt tagttactct aaatttacct tgtttatttc atctcatatt 360
 tctatgctca agacgattgt ttaact 386

<210> 19569
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19569

tgtaacttac accccacaat gaatctatat tgntggatgt gtagatgtga tccaaagaga 60
 catgggggtg agaagagggtg gaaggcgacg ccgatgtcaa cacgatcgat ggaggaactc 120
 ggggagttga agaaagagga ggcggcatct caggagcact catggttgtc acattggcac 180
 taaacaaggg tgtagtgaca gtggacggag gaaccacgac atgattagcc gaaacgggca 240
 gcgtaacaac ttcagcaata ggagcaacct tctgaacaga cacacaaaga agagatggag 300

gagaaggaac atcaatagca acaggaacaa caaaagatgc ttggacaaaa aaacagagct 360
agaggcggat cctgcaaact tgaggggtga cccaaactga gcatcaacct tgcattgcta 420
cctcatcacg 430

<210> 19570
<211> 354
<212> DNA
<213> Glycine max

<400> 19570
tttcttttca cataatgcaa gttctatgag tatgagacac tggatttata tgaaggatca 60
agtctacgga ttgatagaat atgttagatt catatttact ctctgacatg aaccatgctg 120
aaagtattga ttcgtgatct atagcatcgc ctattattat attgatgtta aatgaagtca 180
cgtgaaccgt acttattcct ttttatgata gatcctgtga agctattaga ttgatccttc 240
gctcctatga cctataccat acgttataca atgtcgagtg acacatatag ggatgttaca 300
tactgaattc ataccattat ctcggtgcctt atgcactaaa ccattctaca ctgt 354

<210> 19571
<211> 321
<212> DNA
<213> Glycine max

<400> 19571
tgtgagagag gacctggact attcttttggg ggggtggcatt atcggaactg acgagctgac 60
tgcttgctca ctatccaata agagtgcggc tctacactcg tacgccacct agcacatgat 120
gcttactatg gtagggcagt acaatgtaga gtcagtccag gctgttacct atgaacacga 180
gcatgcagac gatttcgcca tgtgtgcacg aaattggagg ctagaaggag cgtgatggat 240
gctctgagtc gggaggagac tatgtggatg gaaaggcaca tcttgacctg acatggcagt 300
cctgaccgcc caccactact a 321

<210> 19572
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 19572

ttgcttgtgc atccaatacc ctgatgagga tgtcccatat gttcttaaaa ctggactgat 60

tcatttgctt ccaaagtttc atggccttgc aggtgaagac cgcacaaaac atttgaaaga 120

atttcacatt gtctgctcca ccatgaaacc cccagatgtc caagaggatc acatatttct 180

gaaggctttt cctcattcat tagagggagt ggcaaaggac tggctgtatt accttgctcc 240

aaggctccatc acgagctggg atgaccttaa gagagtattc ttagaaaana gtttccttgc 300

ttccaggacc acagccatca ggaaggatat ctacgtatt agacaactca gtggagagag 360

cctgtatgag tactgcgaga gattta 386

<210> 19573

<211> 402

<212> DNA

<213> Glycine max

<400> 19573

ttcaagatat gtcattgctgt gagagttaa gatgagatgt gatctcatat cggttagata 60

tatgccc aaa atactcctta tgttgactct ggaaatactt ccgtttcgaa ctaactttgt 120

tattcagcac ttataccagg tgaaattcca gcaacatgga tgtctttgca atatatatct 180

aaaatactaa agttcgagaa ctgtgagatc catcattcag taaatgcaag agggaaaatta 240

atgccacaat tctcgaagag aataccagac tttaacttca tggatgaaaa aggaatgacg 300

tggttttgca gaagagaact tatagaccat atggaattgt ctgtgattga aaaaaactga 360

gatgactgac atttaggaac cgtaggggat ttatactcat aa 402

<210> 19574

<211> 260

<212> DNA

<213> Glycine max

<400> 19574

ttctttcttta agagtttcat gcaggacaac ctgccactc tccaattatg caaatcgggg 60

gatgcaacat ctgtggtggg gcccatgagt tatgtaagt catatcccaa cagcatgcat 120

ccaaagaatt caactacatg gctaattccat atcatcgagg gttccatcaa ggaggacctc 180

tgcgatacaa tcaggagaaa acttttctta aggccaaggt tggagatccc atcctgtgaa 240

tacattcatt aaagattgac

260

<210> 19575
<211> 423
<212> DNA
<213> Glycine max

<400> 19575

tgtgacacca ggctacaaag ttataaaaac aagtaactat ggctaataga gtaactaaag 60
cttttgacaa taccaataac tatggctaac actaactatt tactttttaa caaaacaagc 120
catatatacct ggtcaagaaa acatatacta ggagtaattt tctttataaa tgattatgaa 180
aatgaattat ccgcatctcc atgttcccct cctatccatc aaaaggaata agacaaggaa 240
ttttgttggc caaacaata tcaaaataac aatgtcaaaa caacaattat gtacaatgat 300
ttataattta gtccccacac catctataga aaaaattaaa caccttggac ctagtaatca 360
tgattaacag caaaactaac aaaaaatatt gtgatcctcc ccacttggtc ttagggcact 420
aag 423

<210> 19576
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19576

ttttgcaagc ttggagggta tccatggatc ttgaagcatt tttcctttgt gtgtccatgg 60
atgttgcaat gagagcaaaa cggtttatcc ttgcgagtag gttttccctt ggcattggat 120
tgggttacia cacaagccat ttcagcagga ggagcataat tgggttgaac accaacaagc 180
ctatgagttt catcttgaag aaataatgag aaggtatcat caatattcgg agtcgggttc 240
atcaacaata tttgacctca agcatgggca aaactctctt tgacccccat cagaaatgac 300
atgacaaatt ccnctttgat ggaagcaaga agtggagcaa ccctgccaca attacaacta 360
tgattggcct tgagttcacc cagcttagcc ca 392

<210> 19577
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19577

gttacagaat tgagtcactc tntattgaga ggggtttag caacaatata agatttctca 60
cagagatatc ttggcttgag ttactctcac ttggaaggct tcaatttaac ttcataatgc 120
tccttggttg ccttttaaaa ctctaaagaa tatcgttgaa gtggatccca ctcaagcgac 180
aaattttttg aggaagcaaa caaaatgat agttgtcatg tcatgggagc tagcaaggctc 240
attctgaggg aactttctga tgaacattct ggacttaaat cagaatggag attctaattgt 300
tagcttatga aggattcata ctgaagtaga tccttttgat gaagttcaac agatgtatat 360
ctttctgaag tagctcagct tcatcaacct taacacacct tcataacaca nagtattcta 420
a 421

<210> 19578
<211> 316
<212> DNA
<213> Glycine max

<400> 19578
agctttatgt gatcctcact tgctgcaaat gaaaagggtg gaccccatgt ttttaagacg 60
attgatctca tagaacaact tgagaagttt gggaaagagt tttctcaaga tttgattcta 120
caatcacttt ctaattcatt ttcacaattt agtgtgaatt tcaacatgaa taagatgagt 180
tgtgacttgc atgagatgct aaatttgcta attgattatg agaatcaaat tgcttctgag 240
gataagaaag aaactatcat ggtagttggc aagagctccc agaagaaagg aaaaagtacc 300
aaaaaggaag catcat 316

<210> 19579
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19579

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gattggatga aataaaatct agataagata agataagatt ggatgaaata aaatctagat 120
aaaataaaat atggataaga taagatttga taaaagaaaa ttgtttgctc tcttcaagtc 180

caagcccaat tccggattca agcccaattg cttataattc tcctgaaatt aaattaaaaa 240
 cacaaaatta gtcaagtaag cccaaatgat aaaattgcat aattaatttg acaattaagg 300
 ctaatcagta attaaaatgg tgacaaaaag ggtaagaaa taggagaaaa taatgacaca 360
 tcagtggata tcatgtttta tgggtaaacc catatagata caacaaatga gaagaaaaat 420

<210> 19580
 <211> 576
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19580

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 acactctcat agatgtatgg tgatataaaa gatgtcggac gcctatgtcg ataccgtaca 120
 tactcacnnn ntctcggtact cgggtgcatcc tgtatagtct acatgcaagc atgcaggcta 180
 ttacttttatg atgagtgatga cttaaaaaaa gacacgggtg agcttagcca aacattaact 240
 atgccatgat aattaaataa gtactctaata cacaggacat tatgaattaa ggatagaaaa 300
 cgaggtagaa caattaatga tatcaaacag ggaggacacc agactgaacg cgggggatga 360
 gtgatttgag ggaccaatat ggacaatgat tggattggac ggtttgacac gataatctcg 420
 gagatcgcag taatctttat gcatcaccca tttatattgc tataagacac gctgagagaa 480
 tggttgggaa taaaggggga aaaattaggt gaatatgccg tgacgagcat taacctctta 540
 gaagagagat atctgaccaa ctaattatga gcctcg 576

<210> 19581
 <211> 341
 <212> DNA
 <213> Glycine max
 <400> 19581

cttatattat gatggatggt gtgactggga tcttatgaat ttttctgatg cgttttgtat 60
 acttgtctta ttgaacttaa ttgtgaattt gggaattgac tctgaagtgt taattaatac 120
 actaattagc aaccatccat agagacgttc cctcatgttc cattcatgca tcatatttat 180
 agtagtcttt aaccgggtgaa gctcatctta tttcgacgaa tgtaaatttc tcaagacata 240

tattacgtgg ccacaatcgt agggaccgtg ctttggacac aatgggctcg catatgggat 300
ctagatggag ttgctatatg catccattct tatgtgtgca a 341

<210> 19582
<211> 376
<212> DNA
<213> Glycine max

<400> 19582
ccagacatat atagctttct cgataatctt gcagattaca taacaaattt aacgtatcat 60
gtgtcatgta ttgagttttc tttaaaggaa gacctaagca tgttcaatct aatgttcctt 120
tatatatata tatatatata tatatatata tatatatata tatatatata tatatatata 180
tatatatata tatatatata tatatatattag agactctatt attacacatt atttatttat 240
ttcttacaat atgaacaccc cttatatcca aataaaacat cttaaaaatc tctctaattg 300
tgtctcatta cagagcttaa atcctctcat gttaagataa aatatcacta tatttctcca 360
tagtataacc agtacg 376

<210> 19583
<211> 492
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19583
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atacaacttt ttagcacta ctctatTTTT tagcattatt tctgaactga taaatcactt 120
ttaaatttat ttgaaacctt ctatatataa ctagaaatca aattgagtgt aaattcaagt 180
ttctttaaaa tggaaaactt atttttatgc attatcaaac ttaaagttaa acaaatgaca 240
agaaagaaag aatgttactc acaaacattt ttatattagc tcattcttta attttggctt 300
acatccaatc cttatcttta tcttttagtag aatttttact agatgacaca cactaaccaa 360
cacacacaaa tatatatata tatatatata tatatatata tatatatata tatatatata 420
tatatatata tatatagttg aggcgcgact atatatgcat attggtgaga ttcactaact 480
aattaactaa tt 492

<210> 19584
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 19584

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agcttgctct ctttccctta caagagtgaac aaggcagtc catggaagta tgcccctcaa 60
aagcttgacg gaaggaagga tgagtctgtc agagaagacc tatcctctgc caaagttatt 120
aacatctcta gcacaaatgg tatgaccgtt aacggacaaa tctttgtagc gcccgagctt 180
ctgatgagag ataaagaccc aaaggggaag gcgaaagtgg gcacgaaata gagcgacaag 240
gcaagccgta ttctggatga ggaggtcccg gccgggaggt ttgctaaggg agaggaagac 300
ttcggcagaa aaataatatc cgtagaagaa acaaatgtgt tccttcagat catccagtaa 360
agcgagttca aggtaatcga gcaactcaat aaaacccca 399
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<210> 19585
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 19585

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tgagctcatt gttgctaccc cacaagctc ctcggaattt atctcggtta tgttcctcct 60
tgccggccct tttggttttt tggtcaaggg ctctttagt ggccgtgttt tcctctcgta 120
actcggtgca ctctttccgg atgttttagt cggctgactt gaacttttct ttggcgagtc 180
ttgccttccc tagctctaatt tttagagctt ggacttcttc atcttctcct ggagcttcga 240
agttctcttc attgataact ttcaacttgg agagccaatc taaccctcgc gtatgaactc 300
ttagccatcc atgataacca ccgatgacgc cattacggat gccctgagc tcgttgtctt 360
tcctcaacgg acttctccac gccttgtgga ttctttgtat aaccttgaga ctttgcggtgc 420
cgaaatctct cacaaggaa 439
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<210> 19586
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19586

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 gggtacttcc tcgttgacat cttttgtcctt gaatggaatt gccatgacag gtttgttggt 120
 actgtctttg atatttggtg gttgatattg tgttggtgga ggtaattccg actggattaa 180
 ctcaccatcc ttcacttgcc aatttggtat gacatttggtt gttggattac ctatgatgtc 240
 ttgtttccaa gggtagtcta tatcctttct gatggcataa gcatganacc aatcaaagaa 300
 aaggacatta attntgactc tttcgacaaa ttcgtagaac ttgtcttgga tttgttttct 360
 gtttgtaccc ttgtaat 377

<210> 19587
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 19587

tgacggtgtg ggattttccc tgtactctac tacgggtcaat attccttggc acccttaatc 60
 atgttcaatt tgttggtgtaag tctatgtcctt ttaatccaaa aaaggaaact tggttaccat 120
 gtgagagtca tttggatcaa tgacaataga tttggatggtt atatgcatga gtatttcaat 180
 gcttgcaacta ctacaaaagt gtgtttttta tgacacgcgt tctacttttg taattatgtg 240
 tctgaaaaat ccttttatga tgcacattct aagacggata ttgaagaccg ccttataatg 300
 tgtgctcttc ataaaaaatt atgacgggtt ttattacaat ccgacagtat ctcaattgaa 360
 ttcaaaagcc caattaatac gagtccacgt gcatgcagca aattaacttc agcgacctct 420
 c 421

<210> 19588
 <211> 268
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19588

tatcttctca aggaggtgag cttangtatg agaggggctg gtgtagctaa aactagctt 60
 ctcaaggaag atttctcaaa gaagcttctc aaggaagttt tctcaagaaa gcttctcaag 120
 gaagctacct agtctataaa tagaagcatg tgtaacactt cgtgtaactt tgatgaatga 180
 gagtcttggg agacacaact caaagttcaa attctctacc ttcttcttcc ttcaatgtcg 240

tgctccaccc tctctctttc tctccctc

268

<210> 19589
<211> 432
<212> DNA
<213> Glycine max

<400> 19589

tgtgcaaadc aagtcactcc cgcattttat ctctagcatg cattgtatgt tggctctcgtc 60
ctttggcacg ggaagccgga aggtccatat caccttctta attgtacaca tggggcactg 120
cgcccccaaa tgcacaagta agaagagata attttccggg ctctcgtgtc cgtaaaatgc 180
attcatatca tgcacgcgat aagcatctct tcataacatc ataatggaca tatcctgcat 240
ttgtccgtta tcatattcca gctcacatt ttgcatgagt catggcatca tcatgcatat 300
gcgttcaaca aactttttga tctgcaaaat tgcataccat ttgttttcat gtttgctcat 360
ccttgcggtt tctctacaa aacaaaaaca aagaaggggg aagcgtgaaa cttcacacta 420
cattcttagt tt 432

<210> 19590
<211> 286
<212> DNA
<213> Glycine max

<400> 19590

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gcacaaacgc ttcccagcct tcgttaaccg ttggatcttt tcgaaatatg gtttgcaact 120
tctcaagaca attttccatg atctcaccgt tgggatcttt gagaagatat ctggagtgtg 180
ctagaagctt ccgttcccga gagcatctct tatttaagca tttcagcctt tgctttcgtg 240
tagcttaaga aaaacgtcat ttcttcttct ttctttcttc caaagc 286

<210> 19591
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19591

tctcaaggag gtgagcttag ttatgagagg ggtgtgtgta tctaagctct agcttctcaa 60
ggaagttttc tcaaagaagc ttctcaagga agttttctca agaaagcttc tcaaggaagc 120
tacctagtct ataaatagaa gcatgtgtaa cacttggtgt aactttgatg aatgagagtc 180
ttgtgagaca caactcanag ttcaacttct ttcctttttt cttccttcaa tttcgtgctc 240
ccctccctc tttctctccc tctttctttt cctccattga agcatcctct ccaagcttct 300
tatccaaggc tcatcttggt ggtgaagctc cttcttccat ggcttattcc ttaatggatg 360
gcgcctnctc tcacctc 377

<210> 19592
<211> 383
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19592

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attactactt tgattttcag ccttgatatt tggttatatt attatgggat ttgaacaatt 120
tactatttcc ttatttgcag ggtatgtttg gaccaatatt aagtatgtta tttgactatg 180
tgaagtttat aattaatcta ttcattggtt cttgcttcat ggttttcatg gttcttgctt 240
cttgcttcat gatttggttg atattttttc atgaacattg tatgaatgtt tagttatatt 300
ntaatagca ctttcgcttt ttgttgatgc caaaggggga gagaaatggg attaaatcaa 360
gaactcacat gagtaattaa ttt 383

<210> 19593
<211> 430
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19593

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gggagagttt gatacaattt acacaagttt tatacacaaa agttatgcgt tttcaccaac 180
taccatgtct ctaacaactt atgcaattca gattcctaatt cttgagtcaa cttgtgatcc 240

tccgccgata tctcattata gcaaactagt ccttgcaatg ctatgaagat ggcctggtaa 300
 tgagctagtt ttaatttacc ttccaattct atgatgttct ctgaaatttg ttcaccttgt 360
 aagcagacca gttntccttg atgttgaaac ttcattgtca gctgagcaca attccagttg 420
 atgtcaccta 430

<210> 19594
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 19594

tgctttcaac tgaatttaca acgttctaata taatttcaaa atgggtgtaac cgattacaat 60
 atattggtaa tcgattacca gtgtgtttga acgttgaaat tcaaattcaa ttgtgaagag 120
 tcacatcctt tcacaaaaat gttttgtgta aacgattaca atgatttggt aatcgattac 180
 cagtgataag ttttgaacaa aaatcaaaag atgtaactct tccaatgggt ttcaagtttt 240
 tctaaagggt ataactcttc taatggcttt cttgaccaga catgaagagt ttataaaagc 300
 aagtccttaa cttgcatttt taagaagaac aatcattaca atcctttaca atctttgaat 360
 ctctttgaac atcttc 376

<210> 19595
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 19595

tgcacttgag gaggaagga tatttgtagc taatgaacat ctttcttaac tattcgtcct 60
 taagatttta ctgattcttt ttgctaatat gtaaataaa atgggtataag ggtattgtca 120
 taccctaatt tcgtccgggg attattattt gatgatatac aacctttgat tggccgcttc 180
 gagatacttg gcaccctttg ttgcacaata tgtgaagtcc cgagacgtgc cgaatatcaa 240
 aaggaagcag gcttacgcga tccgtgaaaa ttccgtaatg tgacgaaaat cgaaaggagg 300
 tgtttttcgc aatccgcgag ttttcataac ttcttcgaaa gctaaaaaag agtaaataca 360
 taatccgtac ggattcgtaa ccttgcgga ggaataaac tatcgggtact aaatt 415

<210> 19596

<211> 396
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19596

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 tcaacaagaa tcaagccaag gctattgtgc aagcaatcaa tggggcataa cacaccaaat 120
 gattatgatg atggatggct caaatttctca caaaggtaaa ctcatcactt tcaaattgag 180
 ctttcaaaac tatcatgaca tgtagaggag aatcaaggat ttcaagtcac aaaatgtcaa 240
 gaacatttta ttttcaaaac aattacccat ttcttgaaca tatcctataa ttcanagaaa 300
 aacatgcaaa gtctgtacatg cacacagaat tgacccaaaa tattaaacta gaaatccgac 360
 gaaactaaca acatcaacaa attaacacaa ctaaca 396

<210> 19597
 <211> 411
 <212> DNA
 <213> Glycine max

 <400> 19597

 tcagaaccac ttcagaataa agcatttggc attcccagac cacctgggtcc tacaagatct 60
 gttagcatgg acctctccaa ggcaccactg gaatcagctt catctgttga tctttttcag 120
 ttaccagcag caccatctca agctccaaca ttggatttgt ttcaatcatc tctttcatcg 180
 gcagatccat ctttcaacga gaatcaactt agtcaaacat cccatcttgc atctattgat 240
 tttttttccg attttttctcc gcagccttct actgtaacct cagatgggaa ggcactggaa 300
 ttatctgtcc ctaaaaatga aggatgggca acttttgata tgcttcagag aacctcctct 360
 actgcacaag tggaaattcc aaccactgta ccttcaaatg ctaaatcttt a 411

<210> 19598
 <211> 247
 <212> DNA
 <213> Glycine max

 <400> 19598

 cctgtagaca cgacactgca tgctctgcag cttggagcag cttctaacga ctgtttcata 60
 atactcctat gtgctatcag atcggatact ctattgagac gctagcaaga gtacactggt 120

getaccacac agagctcagc gaaataaaact atagccatac tgtcccatgg gagccctctt 180
ggactctaga tcaagggtc tggcggaat ggcattcact tatcgtaacc agagacactc 240
ctttcga 247

<210> 19599
<211> 153
<212> DNA
<213> Glycine max

<400> 19599

tccattatca atttctagt tctcgatata ttacaggtct ctagcggaca tgcaagtgc 60
atgatattgt cgcttgaatt tgctcataga ttctcgattc agttgtgagc gtcacgatat 120
actactggac acacctcgga catctgatta tat 153

<210> 19600
<211> 384
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19600

agcttgcaga gaaaagcagc atgggttgga tctgtggtgg gatcaacaac aaattagctc 60
agttgttgca caacatatgt aatgtctggc cttgtgttg tcaaatagat caacctccct 120
attaatctcc tataagagga aacatcttct gctgaaatag gtgacctga gtgttgatgc 180
ttggtggtgt aatcacaagg tgtagaaact ggcttagaac caagcatgac aacattattg 240
agaatgtcca gtgcatactt tctttgatat agatttatac caatagagct tctagctacc 300
tcaaacccca gaaagtacct aaagtctcct aagtccttaa ttttgaaagc attgtcaagt 360
agatntgtaa ttctttgaat tttta 384

<210> 19601
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19601

ntgtcctttg gaagggtgga tgttntatta gggacttctg aagggttttg aaagcttgaa 60

aacgtagtga gtttagtctg ttttcgttcc atcaatgaag tatcacgcct aagatgggaa 120
 gttgttgacag gagcacgggt ttcaccacct gaagtaccag ctgcgaccat agccaatgcc 180
 attgaagcag gtggagatgc aaaagcagca gccagggctg gagatatcat agcatgggag 240
 gcctgaaaga aatatcagtt aacagaagta gcataacgga acagaaaata aaaatgacta 300
 tgctgataca atgaactagg acaaccatt cccattagaa tataaataact tttagaaaca 360
 ctattcattc aagtcaaatt acatatttgc ccacattctc ttgttattta tcaagctaaa 420

<210> 19602
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 19602

agcttcttct ggaccttgaa caggcaacta actcctcttt caaaaccacg ctatgtgctc 60
 gcgactgggt cctctcttcc cttegcagct tgagttcatt gttgctaccc cacagagctc 120
 cgcgaaattt atttcggcca tactcttctt tgcgagccct cttgggtctct tgttcaagggt 180
 ctcttgcggt agtggcattc tcttctcgta acccggcaca ctcttctcga atgtgtgtag 240
 cggccaactt gaacttctcc ttggcaagtt tgccttttcc taactcgctt ttgagagctt 300
 ggacttcttc gtctcttcc ggtgcttcaa aactttcttc gctgacgact tttaact 357

<210> 19603
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 19603

tgcattgcat tgcattccct aaaatcatgt taactgcata gattttctac atctaataac 60
 cagtcgtgtc gatttgggat gactgacct ctgatgagt cgatctcttg ctttctcata 120
 aggggtgaacc cttgggtact agtacctca cctccagagg actacatgtc ctgccttca 180
 gaggggcaca cgccctcgcc ttcaaaggac ttcacgtcct caccttcaga ggactacacg 240
 tctctgcctt caaagggtca tgtaccttta acttcagagg actacacgtc ctgccatca 300
 aagggtcatg taccttcacc tttgtagggc aacacgcctt caccttcaga ggactacacg 360
 tctctgcctt tagagggccg cacaccctcg ccttcagagg actacacgtc ctccacttca 420

gaggactaca cgtcctcgcc ttca 444

<210> 19604
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19604

agcttgtccc aagttgttga tctcatttca gatttaaatct gttcttttact tgcaaataatt 60
 ttgattgttag aatgttaagt cttttttaata gaattaactt gtctgggtta taggtgtgga 120
 tcttgcaggg agaagagaga aagcgggtga aaacaaaaga ggcagaggga agtgaagaag 180
 actttggagt ttgctgagaa atggaaataa aagtggggct ggggtggcat ggtcatactt 240
 tagtgtcacg ttagatagtc tacatggcac taaaattacc aacaatgcac ctactaatg 300
 gtgttacttt aaaatntaac agaatgacta ttttacaaaa cttatgcaaa gatagagact 360
 attctttaca tttcanagaa atagggacta atgtacaaaa 400

<210> 19605
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 19605

tccctgcaca aatttaatta ttaaataataa agaaccaatg cacaagtatg ctagacaatc 60
 caaataattg ccaccactta aacctcccaa ttattcttca atttataatt ataaccaaca 120
 tacagtataa atatgatgat taataaatat ctatgtagta ttttatgact taaaaagata 180
 attttaatga gatattagaa aaagttctat tgctaattta aggtattttt aaagaactaa 240
 ggagctagga atcattagta gtggacccta agctaagggt gtatttagact aagtgtagt 300
 gtgtataagc aagaataata taaatacatg gtaaggcaca ttgttagcaa acctaaccga 360
 taagtggtaa ttatctgccc tcaaccactc actcttaaca ttgtgacaaa gcattgcatt 420
 taaaccaatt tctcattaaa aaaca 445

<210> 19606
 <211> 383
 <212> DNA

<213> Glycine max

<400> 19606

agcttgttct tgaccttttc catgagatgg taagataata agattgaagt tgatacaaca 60
atcgtctact ttaaagcaaa tatgcactta acctttcgtg acttataaat aaagatgata 120
attagacatg tgagttacac tttatttaac ttttcaagat ttaaatatca tgtgtcaaac 180
aaaattcaaa ttcaaatgat taatataaat ggaaaaaaaa taattgtata attgattcat 240
aaatagtata gattatgttc aagattaaaa tattttattgg acatctctct ctatatataa 300
acttaagaat ccataaacac gttctgataa cacatggtga cacacgataa tttttcaaag 360
ttcggatgcc acgaatactt aat 383

<210> 19607

<211> 435

<212> DNA

<213> Glycine max

<400> 19607

taactaccta tctcccaaata gcctttgcga agatttaata attaatttgc atcaatgtta 60
aattctagat gttgctaaat gcgtgggcat tgagttatca ttctatgcct agcaatgcta 120
acccgatgat cattttctta agatgttcta ttaggtgtta ccttttccca agcatataac 180
ccctaaaact catgcatggt aattcttaaa tccttactag gaattaccct cacccgagcg 240
aataaaacc aaattaatg taaggcataa atgcaagata agaagaaaag ttttagaaca 300
tgatacccta gaatgaatcc tctttgcatt gataactctt gaagtacacc atacatcggt 360
ggctttttta gtttttcagg ccctagctag gggattagcc actcatggcc attgagggct 420
ctacaaatgg gggtg 435

<210> 19608

<211> 393

<212> DNA

<213> Glycine max

<400> 19608

agcttatgcc aataggagat gatcaatgat aatgcctaca aaattgattt gtcgggtgag 60
tatggtataa gtcatacttt taatatggct gatctatctc tttttgatgt aggtgatgat 120

ttacttgatt tgagggcaaa tgtttttcaa gaaggaagga atgatgagga tatcaaagac 180
caggccgaag cccagaagga agcccaatac ctaacacaag gcataggagg gcttgtgaca 240
agagcaaaag ctaaaaagac ccaagatact ttgcaacata taatggctaa tctgaggaca 300
atctaattgc atgaggggac ccaatatcta gaggcctaaa cctcaagctt aattatgtct 360
cacttaaata ctaatgcatt tcagttatgc tta 393

<210> 19609
<211> 439
<212> DNA
<213> Glycine max

<400> 19609

tctcttttct tgtttaatga ttatatatttg cttctaatacc ttgtatttgg gtatgttctt 60
atgacatttg aatacttagt atttctttta ttattcgatt agtatgattg aacatgatga 120
ttatatattac ttgctcttgg ttgtttatgg ttatgagttt taaactcaat tattttgatg 180
atatatgatt agtggtatgt acttttattt ggctattatg aatgactttc tggattatat 240
gacattctat gaagtattat atttctagtg tgatgaatgg ttatgtttga ttgttttcta 300
ttctcgtgta tttggctata ttattatggg atttgaacaa tttactattt ccttatttgc 360
atgggatggg tgaacaagta tgttatttga ttatatggat ttcatagtta ataataaact 420
aaaattcacg tagaattac 439

<210> 19610
<211> 391
<212> DNA
<213> Glycine max

<400> 19610

agcttgtgag cttaagttaa aaaaaagatg ttgaagaagt tgacttgact atcaagtaca 60
agaaaagctt ttggtctagt gataagcact tgattccaag tgtttcacca ataaatgaca 120
agagtttcat aagtccaatt tcatgatcaa gtaaaaggct tacagttttc ccatttgtgg 180
taatgatggg gacatttttg ccattgattt gtgtcacctc tccatcaatc catgcatcct 240
caggatcctc aacccaaacc tgtgatccaa cgatgatggt cacaggtgtt ccctgaacca 300
atcacaacaa ggcaagaaaa agtgttactg ttaacacatg atctgacagc aaataagtgg 360

gaaggatcca acaacaacca acatacaaca c

391

<210> 19611

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19611

tctaattgtgt actcatgtat tgtcaataag tacaatatgt aagaagcaat atgaagaata 60
aaacatggag catggaaact gcattgttgc ctaaacaagt agcaaaaata taacacctca 120
tctttgagaa gtgcttactg ttttctcttc ctcagtgcg agaaacttcc cctctgcaaa 180
atcacaggct gcaattggta ttgctagctg cttctgcaat ttctttacaa caaacacttc 240
tgactcttca catatgggta ccaactgtacc attcctacct agccgaccag ttcggccagc 300
tcgggtgtgca tagtgaattg aatctgtcgg taagtctaga ttaaccacaa gatcacattc 360
tgccacatcc aaacccttg ctgataattc atttgaacc agaactctca cctcaccatt 420
cttgaatntc ttcagagt 438

<210> 19612

<211> 195

<212> DNA

<213> Glycine max

<400> 19612

ctacagtgca cgctgtgcgc acgcattctt gttcctgaac gccgtacact gtacgccatg 60
actagcacac tatgtgctgt cagacgagga cactgtttgt aacttgcata tctagagtat 120
gttgaggcct ctacacata gcttgtcaaa atttggatat aggatactcg cacttgcaag 180
cgatatgcgt ctatt 195

<210> 19613

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19613

agcctgcatg acttcggcgc tctaggtact tctttacatt gctatatctt aatataatat 60

gacatactag aataaccctt tgcatacgga atgacctact acttgattgc ggtgaatgca 120
 taagaatgat ttattattta ctccaagagc atgcatttaa atttcttaat gtgcacattc 180
 tttttgaatc aatagtgaca cgatgagaac ancattattg tctaacggaa tatattggag 240
 gatatgatga caacccaatc acatacttga atttacagct accaagcctg tggtaaataa 300
 catatatatt atctctcaaa cacacgatat attgtaattg acttcacaat aaccttttgt 360
 agctggcaag aatccgcact tccagaagta aatac 395

<210> 19614
 <211> 326
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19614

tgcttggcac aatgttgata acaagacaaa cttcaattgc ttcattctgg taacaacttt 60
 attttcatcg aaatgatttt tttttgcatg aaaaggcttt aaatgggaaa aaattaattg 120
 tcatgagaaa taacttttca gaaaatatat gtacgactaa tcttgtagaa tattgtccaa 180
 aaatgttccc agattattat aaagtgatat gataatattt agaaattgtc gtgtgagaat 240
 acagttgtaa gacaacaaag gaacaataac tatgaaaaat agattcttgt aatttgtttg 300
 gcttgagaan aatatgacat attatt 326

<210> 19615
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 19615

tatcacataa atagcttcac taacattaat tgtgattcta ttttattctt tattacatat 60
 tatataaatt aatgtgtatt taaatggtaa ttaaattgtt ttatcaattg taattacatg 120
 gagataaagg aagccatttc aaattaataa atttgaaatg atatgttttg tttttaatga 180
 gtaaacaatt aatgaatttg attttcacat atcttcta at tattactata aatagagAAC 240
 caattcatat aacttattat catttctttg tattcatcta gtcgattttg acacattgac 300
 atatgatgac aagtgtgaaga tcatattcta aagaaaaaat tacacaaaat tgtacttata 360
 tgtcaatcct ggatctataa ggattttttt tataatgaat ttaatctttt attcttaatt 420

actataatca ta

432

<210> 19616
<211> 395
<212> DNA
<213> Glycine max

<400> 19616

agcttgccgc ccaactcgcc caggcgagca aggttgcttc ctccagaagc aacaaccttc 60
tggaggaatc ttctggaggg cccaagtggg cctgggttgc atttacaccc cccgtttact 120
aaatgcaccc cctttctatt tttttgtaat tctttttccg taatgttacg aaactttacg 180
aatttcgtaa cgatacctat tttccttccg caaggttacg aatccttacg gattatttat 240
ttactctttt ttagctttcg aagaagttac gaaaactcac ggattgcgca aaaacacgtc 300
ttttcgattt ccgccacatt acggaatctc acgaatcacg caagcctgct tcctttcaat 360
ttctgagacg tctcaagact taatttattg cacgt 395

<210> 19617
<211> 428
<212> DNA
<213> Glycine max

<400> 19617

tgatcaaaac aattatctaa tcattcctat ccactcaatt catacaattg ctcatcctaaa 60
taattatcaa acactcattt cataccaaac aatccattgc atatcatttt caatcaattc 120
attgttcaaa cacgcttttg gtacaagcaa acaactcaaa gtgctgaaat ttaaaataac 180
taaaatataa agcaaactaa atactaataa actaaaatgt tcatgctttg cagaaattaa 240
actaaacaca atttaaacad cctgctcatc ttgtggctga tcttcattat gatctagtgt 300
tggagctgct gatgaatcct ggataggctg ctctggctcc gtgactgggtg tagatggctg 360
gggtctctca agaactgggtg caagagatgg ctttaagtatt tgatctatgg aagtcccctc 420
ctcctgag 428

<210> 19618
<211> 397
<212> DNA
<213> Glycine max

<400> 19618

agcttggttg agaagcttct atggagactg gatctttgag cttcactaag gtcctttaat 60

ggtgattttc aaccatggag ttgcagtgga agataaagga gaaatgggga gaggaggcgc 120

catacactag ggaataagcc ttggaagatg aaggttcacc accaagagag tgtcttggat 180

aagaatctta gagaggaagc ttcaatggag gaagagaatg agaaagagag agagagagag 240

agagagagag aaagtggcat gtaaaattga agaaagaaag gtagagaatt tgaactttga 300

agtgtgtctt acaagattct cattcatcag agttgtgaca agtgttacac atgtttctat 360

ttatagccta gccaatgact aaatgaaatt ttattttt 397

<210> 19619

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19619

agaagaagtt ntgaataagt tttggctttt acatgcctaa ctcccttgag tgacatttgt 60

attggttggtt atcttggttg ttgcatctta gtacatttga tatttgtttt gcattgtgca 120

tcatcatagt gtgtgtgaag aaaagtttct aagttataaa aattacttta gaggcaaaaa 180

ctctttattt taattgatta caacctcatt gtaattgatt acaacaagct attaaagctt 240

gtagagttaa gtatcgtatc ggtttaatcg attaccgata tctcataatc tattacacta 300

ttgtttgaga caatgactga tttatttagg agtctttgct ttaatcgatt accaagtgga 360

ttaatcaatt acttctatct cgttcaagtg ttctggggtg aacaagaaca ctttaatcaa 420

ttactt 426

<210> 19620

<211> 394

<212> DNA

<213> Glycine max

<400> 19620

agcttttatg ttgttattgc aggcaatatc acaaatagaa acagtttatg ctttcggttg 60

agagagctct gcaaccaaatt cttttataga gaacatggaa aaacaatatc ttataagcaa 120

aggggaggca cttgtgaagg gagttaggat agggatatag caaacagaga gtttctattc 180
 tttggctctc attgtatggg ttggagttgt tgtgggttaga gccgaaagag caaccccata 240
 agacataatg actgtcgtga tgagtattct ctttgggtgcc atgtaaggaa gaaatcacct 300
 tcaggattgt ttagaatgga gaaaatgggt aataattaat aactaagtaa caatagtctc 360
 cttgtgaatt gcatactctc cacttacgca tcac 394

<210> 19621
 <211> 320
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19621

tatgaaaaac attatTTTTT ttttatcata tttctagtta tgcttgagct taatcttagt 60
 tgtgcccgcga nangaaaacc nctgccgaca ttgactaatg tcacgcctcg gtttccctatg 120
 agcaactcga cgatgtcctg gggggatcct ctcttctctc ttctccacat gtccccgcct 180
 attgcaagta ccccggcgtt cctagtgggtg tctgcgaaca ttcagctcat ttactccttg 240
 agccttgctc cgGCCctatg cctcagtatg cctggcgggc atggcgcccc acggagcatc 300
 ttgtgcgata cgtggccttg 320

<210> 19622
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 19622

agcttgttct tggagtcctt cttcttgagc aaggcttaca cactcacttt attcattttc 60
 aagtgttca atccataagt atcagcagtt ctacctttaa tcttgtggat catgcttggt 120
 ggggatgttc ttccgtcttg ttgggtggag gaaaactcaa attctgcac ttctatatct 180
 aacactcaaa attagtgaat gttcattgtt tacatgttga tggctgaggg aatttcattt 240
 gttatattag tgggtgcctat ctctgccatg 270

<210> 19623
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 19623

tgccacccag ctcgcccagg cgagcagggg tgcttcctct agaagcaaca gccttctgga 60

gggcccgaagt gggcctgggt gctatttgca cccccatttt tactaagtac acccccctgc 120

cttttttttg gtgattcttt ttcgcaaagt tatggaaact tacgaatttc gtaacgatac 180

ttgttttctt tccgtaatgt tacggaacct tgcggattac ataatcatcc cttttttgac 240

ttacggaatg ttacggaacc tctaattg tgcaacgatg cttccatttg atttccgggtg 300

tgtcacggaa ccttacggat tgtgcatcaa tattttcttt tgttttcggg catgtcccgg 360

aatttcacaa attgcctaatt gatgggttcc aagcacctca caaggaccaa acaaaagtgtg 420

c 421

<210> 19624

<211> 395

<212> DNA

<213> Glycine max

<400> 19624

tgtcttgcac gctttttataa ccatgttttt ttaataaatt taaacagttt ttttataatt 60

taaattgtat ttaaaaaata tgttttataaa ttaatttttt tctaaaatat taaaataata 120

aaaaatttat tatatttttt agatattaat ttttttataa ttaaattttac aataagaaaa 180

aaattagata tattttttcag atataattct taataattaa ttttatgata attatttgag 240

taatttaata atatgaaaat ttattttatt taaacaatat attataatta attaatttaa 300

attgagtagt attgcggaaa ttctttttgtt attagtcaat cataagtaat cctacaatta 360

aatatttaatt tctaattatt ctcaatcatt tataa 395

<210> 19625

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19625

ntaatcactt gagnttggtt tggaattaat ttttgattta aatttaata catttaaagt 60

tttttttaatt tcttttttaa tgatatattt tatgtgaatt gaactcatgt ttttcaattc 120

cacaaaatat atgaattaac ttatttgata ttattctagt tcaattgaat gatttcaa 180
ctttgcactt tctgtgtata aaagaatctt tgcactttac gtacattata attaaattca 240
tgttaattat ccacttggtc aagagagagg cagaaaggcg tgatgccatt aacaagtgg 300
agtggatatg ggaactgtgg tgtactctct tcaagtcttt tgtgcgatat atgacaatga 360
aacaatcaa tcaatggtat agtaatagca atgtttat tat 403

<210> 19626
<211> 394
<212> DNA
<213> Glycine max

<400> 19626

agcacgaaa gtccggtggt agctgtcttg gcagatttat ttgacacatt taaccgaagg 60
tgcaaaaaga gtagcgacg gatcatctgt tgcttgcccg ccctctgtgt ttgggttggt 120
tcacacctgt tccagcaaga cagagtcac ctatgtccgc tccagagcca tcgctcgtgt 180
actgaaaaga gaagaataga ttgggaccgg cttttggctg ggataggagg tagaacaatc 240
aattggttcc ccgatggaa ggaaggaaag gagggagtcc ttttctcatg tggagggtac 300
ccaaacattc cgctgatagg aacgaggggt tgtattaact acaatccgc gctcgctata 360
agacaactaa ggtaccccat gatgggagta ccga 394

<210> 19627
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19627

tggagaggat gcttcaatgg aggaaaagaa agagggagag aaagagagag gggggagcac 60
gatattgaag gaagaaaaag ggagagaagt tgaactttga gttgtgtctc acaagactct 120
cattcatcaa agttacaaca agtggttacac atgcttctat ttatagacta ggtagcttcc 180
ttgagaagct ttcttaagaa aacttccttt agaaacttct ttgagaaaac ttccttgaga 240
agctagagat tagttacaca caccctctc ataactaggc tcacctcctt gagaagcttc 300
cttaagaaga tttctaaaga agctagagct tagctacaca tgcctctcta atagctaagc 360
tcacctcctt gagatgagaa gctagaactt agctacacac cccctataat agctaagctc 420

acccccatga caaanaacat gaaaa

445

<210> 19628
<211> 305
<212> DNA
<213> Glycine max

<400> 19628

agcttggtact tgaatcttggg ttaatgagct gaatcatagc taacattaac taatcataat 60
tagagaaact ttcgctccaa aatttgccctc caaaaattca atttcaaatt caagtgaaat 120
ttgaatacaa attcagattt ccctccaatt ttgtgtgaca cttacgctat aaatagacgc 180
catgcgcgcg catatgttcg actgcgatca ttgaaaatt acacttcaaa tttctgacct 240
tattttaagc actcattgcg cgtcgttcta ttctctgcct tattcaactt cttccacatc 300
tacct 305

<210> 19629
<211> 442
<212> DNA
<213> Glycine max

<400> 19629

aagctttaga attataacat aagaactgtg attattgaag aatctatcca tgttggtttt 60
gatgaaattg accctatatg gccagaaaag gatacattg atgatattgc tgatacata 120
gacgacatac acattgatga gaaagggcat agaggcaaag gaaatggtaa tgaataagac 180
tgtcatattg atgaaaataa aaaaaataa tatagatctt ccaacagagt ggagaacttc 240
aagatatcat gctcttgata atatcattgg tgacatctca taaggggtaa caacttgaca 300
ctctctcaaa gatgcgtgcg ataatatgac tttggattcc ttaattgaac ctaaaaattt 360
atatgaagcc ataattaatg aacactggat tattgctatg caagatcagt tatatcaatt 420
tgaaagaaat aaagtctggg aa 442

<210> 19630
<211> 385
<212> DNA
<213> Glycine max

<400> 19630

agctttttat taattacact catactgtaa tcgattacta gaggagattg tcagaaaata 60
 ttctcaacag tcacatattt tcagttgggt cttgaatggc catcaaaggc ctatatatat 120
 gtgacttgag acacgaattt gaaaaaaaga gttttcataa caaaaaggta ttatcttctt 180
 aaaaagcaaa atcattttat cctctttcaa gagagatata ttcttctctt cttctttatt 240
 aggaaaaggg attaatagac tgatgggtctc ttgttgccaa gaaatctgaa cacataggaa 300
 gggttggcct tgtgtgggtg agatcttgta gcaggctgtc acaatatagt ggaactctca 360
 atcaagttgt ttggggactg gacgt 385

<210> 19631
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 19631
 gacagaatac atatggacag accttgaact ttgatttgtc tctcacaaca cgatcattca 60
 tggaagttac accaagtgtt gcacatgtct ctatgaccag ctaggttget tgcttgtcta 120
 actgtcttga catcacttcc ttgataagct tctttaacaa aacttccttg agacactcga 180
 gcttatctac tcacacgact ctaataacta cactcacctt cttgcgaagc ttccttgta 240
 tgattcatag tgaagcta 258

<210> 19632
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 19632
 agcttctatt gctttattgg aaaatactaa ggatctgtca aagattacat tggcagaact 60
 tgtaagtgtc atgcagtccc aagagcagcc gaggttgatg agacaagacg gtgtagttga 120
 aggtgcttta ccaaccaagc accatcatgc tgaatccagt agaaagaaat atgtcaagaa 180
 gaaccagcaa acaagcagcg aaaattgtgc aaacaaccaa acaaaggta agggtaaaaa 240
 gaaaaattat ccaacttgcc agcattgcgg aaaattgggt caccacccat acaaatgttg 300
 gaaacgacca gatgcaaagt gctgcaagtg caatcagctt ggacacaaag ctataatttg 360
 tagaagcaaa tttcagcagc atgaagtcga tgcccaagtt gttg 404

<210> 19633
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19633

ctcaagcttg ttagggtttc aagcaatggt actagggttt caagctgtgg tgataggggtt 60
 tttgaggaac cgtccaagaa gaggatgata ttttacgtca aagcaatagg aagggtcaaaa 120
 taaaacctga cgaggatagc accactctcg atatagaggt tgagaaagaa aaaggacggtt 180
 gaagaagagg tggatcccta caaaaagaag ttgttgtcaa ataacattgc agtgcctttc 240
 tctccttttg atggaagatg ttttgataag cctaacaaca aaatcccccc tgccaccttt 300
 gtcgaaagaa gatagggaaa gattttacga ggttaagatt acaaagagg agttcagtga 360
 ttggtgtaaa ccctggaagg gctcccttat ggtgatattg ttgggtaaga aaanttgctt 420
 ttgtatgatg gagacaaagt tgaata 446

<210> 19634
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 19634
 agcttaagtt atatcatata tattagtact ctttttatat tctaccatat ctgatagctc 60
 actttgtaag aggaaatgag aacattttct cgaatcacia catagatcat tcatttatta 120
 caatgtcccg tgaagcgact agagacagcc gcattgaaca ggaatacata gagcagcaga 180
 gaataatgct tgaatttttag tgaagccata catgctattg tcggaaaatt ctaccatata 240
 tgacacacca ctgtctcagg acgtattgaa gacattttca tatagatgat tgatcatgca 300
 tataataaac gtcagattga agattaaagg ccactctcaa cataatacta agctcaaacc 360
 tccaattttct ccatcattga agca 384

<210> 19635
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 19635

cgctatgaac atcaggcatg atcttaccaa ttaattagtt gattgagtgg ctagtatgtg 60

tcggtgttgc tgtcatccaa ggtatcatca ataattagat cgaatttgct tttataaaaa 120

attactgcag ccaacaatat ccacgataaa aagaatagaa tggcctacaa tagtctcata 180

catttatcaa gctacagcat ccagactaac ggttgcaatt tgcccttctt tatacaagtt 240

attattaccc aaggacaatc tataacctca tcccacacat agcagtcgta tagtttgagc 300

caaataggaa tttttagacg agacatggaa agggaatata catgttcacc aagcataagg 360

atagtggtag agctgggata aaatttctgc tgttatttat taacaatccc taaaaagggg 420

tgatacttat aaacaaag 438

<210> 19636

<211> 250

<212> DNA

<213> Glycine max

<400> 19636

cgctttcttt tatatgtgca attaatagaa aggtatccta tagtagtcgt ggacgtacgc 60

acatacattg tgtgtcgatc cacattaaaa catgcgactc tcctctcttc cctttattca 120

tacacctgct tttattgcac tataactaaca tgcctcacca tgacaacatt ggccaaccaa 180

gtggagtatc tgacttctat gatgaactgg actatgagga gcttgacaat ctctactcat 240

atcgctttac 250

<210> 19637

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19637

tgcctcacag aggtccagga aagatattgc ggncgaattt actagttccg cccgtgagta 60

tgacagtcac cgctttaaga gcgctgtaca ccagcatcgc ttcgaggcca tcaagggatg 120

gtcgtttctc cgggagcgac gcgtccagct cagggacgat gagtatactg atttccagga 180

ggagataagg cgctggcggg ggacatctct ggttaccccc atggccaagt tcgatccaga 240

aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300

gtcctgggta aggggtcagt ggatcccgtt tgatgccgat gctatcggcc acctcctgcg 360
 atatcctgtg gtgttgga aaatgccagga ttgcgagtat tgggtcaacga ggaaccggtc 420
 tg 422

<210> 19638
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 19638

ttactttcta gcactaaca gactgagtat ctcaagacca tcatcttgga gatactccaa 60
 gctccaacca tagacgccag gaaggatcatg gtgggagaaa tggatgaacc tgactatatg 120
 accccctata agaatttctt aatttgaggg gtgtttccac caaacaagaa tgaaacctga 180
 cgccttaaaa ggaaggctag cttctatgtc atcattgact gtgaactatt gaaaagagga 240
 ttaacaacac ctttgcctaa atgcatata gccacaagt agactacatc atgcgagagc 300
 tacacgaagg aatttacagc ctccatata 329

<210> 19639
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19639

ntgggtctcta caaatcttcg cacagcataa tctatcaatt tctctggaac ttggaccttt 60
 ctctctctag aaaaacctca catgcagaag ctcccttgaga aaaatggcca aactcgcttt 120
 ccaaaatctg atttcaggct taaataggtg gctttgttca tgcttggtg cttagcgcaa 180
 ttctgaatcg cttagcacgg agcggatgga ccgaagcggg gcgcttagcg ggatggccct 240
 tcaactcaaca aacaagcaca actcatcctt cttccagatt cttccttgcg cttagttgag 300
 gaatgttgcg ctgagcggat agctcactaa gccagcagat tggcttatcg agagggtgaa 360
 aatcaacact tcaaaacttg cctaattatc ctgaaattga gagaaaatga ttattaaata 420
 cacaaaatgg gag 433

<210> 19640

<211> 381
 <212> DNA
 <213> Glycine max

<400> 19640

tgtgaaaccc accatgcgtg catagaaagg tcgtggtcgg agcgcgaaac tgatgccct 60
 ccacagtgtt atgtaagggt ataccaccaa ctacttgcca ctcaaaggca catccgaggc 120
 aaagcctgaa gtcgcttaaa ccatggcggg gaatatcatg aagatacccc aaggattgag 180
 agacaagtac atgacgagcg agacggctat caaagaggat gggagcagaa acattgacat 240
 gctcactggg agtgtacgcc ccactagaca ggagtctaaa ggggaagcca accatatggc 300
 gggaatgcgc gcgacatctg aatggcacac agaaggcctg tcggagcacc aaatcctgcc 360
 tacatcaatg ccgaggatgt c 381

<210> 19641
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 19641

tcgctgcggt attctatatc gagegtacgc ttatattacg agttttattc cgacatacga 60
 ctataatgtg attgtcttct gcatttgctc ataacttcgg tgtacaattc cgagtgtcga 120
 cgacatacaa cgggactcaa tccgacgtcc agatcaaaag ttgacgtcga ttgaattggc 180
 tatcagcttc ggtattcatt ttcgagcgac tacatagatt acgttacctc ttccgacatg 240
 cgagtcgtca cgaattgccg agcgactttg ctcatagcgc cagctttgta tttctagcat 300
 atggagatat ta 312

<210> 19642
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 19642

agcttttttc tctttcaaac gacaataagt ttgtactggg atgtctgata gaatccagtc 60
 atatatcgag acgctcgaaa ttgaatgtcg aaaccctaca ctactttaac gacaatacat 120
 ttttactcac atgtctgatt gagtcccgta acatatagag acgctcgaaa ttgaatgttg 180

aagctctgag ccaattctaa cgaccatata cttttactct ggtatctgat taagtccggt 240
aacatatcgt gacgcatgaa attgaatggt gaaacccctca ctcaattcaa acgataataa 300
ctatttactc tgatgtctga ttgagtcctg tagtaacacc agacgctcat aatgaatgat 360
gaac 364

<210> 19643
<211> 381
<212> DNA
<213> Glycine max

<400> 19643

cactatacaa tactcaacgc tgcacatgga acttcgagcg cacctaattgt gacaggattt 60
ttcagacatc cgagtaaaaa gggattgtca tttgaatttg ctcagagcat caacattcaa 120
ttacgagcgt ctagatatat tacgggactc aatcagacat acgaataaaa agttattgtc 180
gtttgagttg catacagggc caacattcaa tttcgagcga ttctgttattt tacgggactc 240
aatcatacat ccgatgaaaa tggatatgtc tttgaattgg ctgatagctg caacattaaa 300
ttttgagcgt ctcgatatat gatgggactc attcatacat ccgagcgaca atgttttgtg 360
tttcgaattc gttgagagct c 381

<210> 19644
<211> 351
<212> DNA
<213> Glycine max

<400> 19644

tagcgcatta catctaacaa gttctatgtg tattcttttg tgatgaactc tccttgccaa 60
ttttgctact atttactaaa cttaatatatt gtttagctgat tccttcttaa tctaggtatc 120
gatcatcgac cagttgactc actaagtaac ccactatttg attcattgtc ccctacatat 180
ctaactaacg aacctatcaa acaacctctt aagttgcagc cccaggggca gtgctgctga 240
ttcattgccg gaggggcatc aattgagaga tttgggtggt attgaggggtg cagccacagg 300
gatagagcct actgattctt ggtcaacat aatgggcgtg aatatgcttg g 351

<210> 19645
<211> 411
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19645

tgccccncag ctcgcccagg agagcaagtg tggcttcctc tataagcaac cgccttctgg 60
aggaagaatc tgaaggccca agtgggcctg attgctatct gcacccccat ttttactaaa 120
tacacccctt tgctcttttt tggcgattct ttttccgtaa cgctacgaaa ctttatgaat 180
ttcgtaacga tgcttgTTTT ctttccgtaa tgttatgaaa ccttacggat tacgtaaatca 240
tcccttcttt gccttccgga atgttacgga actttgcgga ttacgcacta acacttcctt 300
ttaatttccg gcatgtcaca gaacttcgcg gattgcgcta caatgctttc ttttgactcc 360
cgacatgtca tggaaacttca tgaatngcct aacgatgggt gccaaagtacc t 411

<210> 19646

<211> 353

<212> DNA

<213> Glycine max

<400> 19646

acatgtatgg acggtataaa tagtgagatc taatcaattt actagatcaa taagattaat 60
actacatata ttttaaatac aagaaactaa caatgtaatt aaattcaaac ttagttcaaa 120
agtaaataatg cgtaaagtgt ataatttctt ttatgttaat tcactttgaa aaatcagaat 180
taattttttt aaaaataaat aatattaata atgaatttta atttacagct ctgcaataca 240
tactttcatt gttggaacat caatatatat ttgaataatc caaattacag aatatgtgaa 300
gaatatatga gatatctagt gaaacatgat aattcatgaa tatatcttaa tat 353

<210> 19647

<211> 418

<212> DNA

<213> Glycine max

<400> 19647

tttcaaacgg gtaatatgct cacattctct ttcttctata tcatattcaa acttgtccaa 60
ataaagaata aagtcataac gactcacaga aagtcataac agtctcatac aattaatata 120
gaacctatat cctaattgtc catcctatca gagcgtgggtg cttccgtgtc ctctagcatg 180
aagttcttca tagtcatcca cctattcatc tgctcccccg aacacaaggt caagatcatc 240

acaggatcca aacacaacaa cacacagggg gtgagttatc acattcctag ctaatagata 300
aacatgacaa ttaaattattc gtattatata aatgagatac cacttgctta aacatacctc 360
acgtaacttc accactgtct cattcaaaat gcacttctca ttataatcac attacaca 418

<210> 19648
<211> 401
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19648

agctttataa gcgcgggtct gggagacaaa ggtcaagcgt tcgcgatatg cgaggatgat 60
attccgagta ctttggtattt ggtacgacca tgccctcctg atttccagct gggaaattgg 120
cgagtggagg aacgccccgg catttacgca acgagcataa tgtaaacctt tacgggtttta 180
aaagctctat agttgggcct aggctttaga gtttttcctt ttgttaaggc tttgtgtctt 240
ttgtttttga atttataata caaggatctt tcttcatctg ttcttggtct ctacccattc 300
tcattcattt gcatgtttac ttctttntct gaaacggcag atccggtgac gagtcccccg 360
aaggtactta tacctgngac ccgcctatcg acttcgagcg a 401

<210> 19649
<211> 445
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19649

ttggctacaa ccttttctcc ccctttggca acatcaaaaa gccaaagaac tcggaaatca 60
acacagttat aacaatggag tagcaagata taagtatcag agtattaaat ccaataagcc 120
aaactcataa tcaagaaaat aatcaaacca gaattcaaat aacataaaat gtcaacaatc 180
acaaaatatc caagaccgaa acacaagaaa aataagcaaa gtacttagca taataatgta 240
aattctaaga aactaaaagc caaaatacac ggcttataaa agataaataa gcagaatcta 300
aaatctaaga agacggagga ggtggtggaa gatcaaaact ctgacgaatg tatccgacat 360
ccttttcaag ctgtgtaaga cgaatgtcca taccggcaaa gcgtgaatct aacgagtcn 420
agcggtcacc aacatacgaa cgaag 445

<210> 19650
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 19650

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agcttattca catgaaacac aaggcatatt tatgtctctg gtgagcctaa gctcttcgct 60
ctagaggaca cgaagctgtg caaggaaagc agcacataga tccaagaaaa gaaactgtgg 120
accctgcacc ctttgaagat caagcagata cttttcttcc cgggttttgt aaagctgttg 180
atgtgactgt aagaattaga gaatattctg gaaaagaatt ataactacc aataataaca 240
gaagaattag tttattgaga caatctgtct tataattggg tataaactg taaagaaaca 300
gcaatgattt acacgtgtat actgtctagt attataaaca tggagggagg gaagcaaaat 360
aatcagaaga ctatttagtt atta 384
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<210> 19651
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19651

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gacttcaccc attntagcat attcttacc aagttgtcca agcaagagct ctacgcctcc 60
caaaaaaag ctccaaattt tgttttagtac taatatatct caaaaaaatt attgtaaaat 120
tatattttaa aataaatttt aattaaaata ttataagtaa ctattaatct ttttattaat 180
aatgtagata acaattaata aacaataatt atttaccact atcataattt ttttagaaaa 240
aaagagattt aataattaat aagtaaaaaa attcacattt tttttatttt ataaataaat 300
aaaaaatatc attcttaaatt ttgtttttaga tctttcaatt tgttgagtcg cctgatccaa 360
aacaaaatct tcaaaaatca aacacgattg tatcaagggc gttaagataa aacatgaaat 420
tgttctttt 429
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<210> 19652
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19652

agcttttatac tttattgcac tattgaccta cctaggagat tttataccta gaggtactca 60
 tgattnatgt cgacaagtac tacatatattg caaaaccaac tgatgagtc tcttatgact 120
 aggcataatct ccccatagca agtattttgc ccgaatacga gtattttaaata taactaaaat 180
 aaaccaatta aaaatacact gtgcaagttt gattcataaa aataactaatg aaatgtaaat 240
 gactctcacc atttttaaatt aatgaaatat ataataatat taattaaggg aaatatgact 300
 aatataatat ttgtcgggta aacaatcaaa ttgataacac aaggatagct ta 352

<210> 19653
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 19653
 cataactctat cagctgatat gctcagtgtg gggttactat cttgaacaca tttcattcaa 60
 aagaccgcca taaagcatag gtatgacttc caacataaca agatacatta ttacttgggt 120
 ctaaaacata ttaacatgat tacttttaaaa tattaatatga cagacatcat atattgaact 180
 gtgactaatc gtatcctact atatgtaaga cgggtttacc ctagctgata gagcccaact 240
 catagaaaca gatttagttt acgaatctgt tatcaatcct ctcttttagga cttatctttt 300
 attaatatct ttttaaggagt tgggttgagg agagggttaat aaatatatga cagaatgtta 360
 gtgaggaaca ccttctggtg aatttctgat gcatttatat ttttagtaata atact 415

<210> 19654
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19654

agcttgtcgg tgtttgaaat ttcttctttg gtgttgaaga agtaattatt agaggcttag 60
 tgaagttgga atgttctaac tagcttggtg tgcaattttt gccatgccct aacaaagtaa 120
 tgtttgaatg tatgcgttta ggaaccatt aagataatgc tttcgtgttt atgtcccta 180
 gtgttctttg cttttcttc tttggtgttg aagaaattag tattaagggt ttagtgaagt 240

tgaaatgttc taacttgttg tggaattatt gactttccct aagaatcaat ttgacttgcg 300
 cttagctttg tggaacttc aatcagtaga tagattcaaa tctcttggtt gaagtatttc 360
 ttcagcctgt ngcatgtgtt acttggag 388

<210> 19655
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19655

ctcaagcttg gaggtatcaa aaagattatc ttgttataag gtctaattct cctagctaga 60
 tcctaacacg caacattgga ggaggtggca ggtagagagg gagagtggga cgttggaggc 120
 acaggggaga acaaaaagaa gaattatcaa ttgaacatag gtcattatat tggaaaacaa 180
 ggggtaacca actttttctt cttgcatttt ccagtatatc atacataaaa aaacttatgg 240
 aacattttca tgaagtagga gaaagtgtgg gatatttata tctcaccaag gaagaacaag 300
 tccgatgaaa aatacgattt tgtttggttc ttggaggtga ctaatcccaa aaggcttgaa 360
 tatcaacttg ataacattca tataagagac ataaagtgtt ttgtttactt aactagantt 420
 gggatgacaa caacaaagga ggtgaag 447

<210> 19656
 <211> 394
 <212> DNA
 <213> Glycine max
 <400> 19656

agcttgagcc gttgttgatg agtactttga ccataacgtg ttccatgcat ttgactgaca 60
 catgtaaagc cctgttatgt cctcttccct cgacggggat ttcctcttca gcaaatgtga 120
 ggtagttggt ggctgtgatg ttattgacga tcccccccaa agccttctac ggagatgtct 180
 tggactacgt gagcttcatt caagaccttt accagcaaag ctcgatgagg ctcagagctc 240
 atgagcagct ccagaaggga gactctagct agggctctgt tgagttgttc aatgactttg 300
 aactcgcttt gttggataat gcggagggaac tccctcctcg agtgatacct ctttcttgcc 360
 acagctctct cttcccatgg aaagatcctt cgtc 394

<210> 19657
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19657

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 cttaaacaaca agaatgaat tgaaagtctc ggattcaaaa acttaccgt tgaagaacga 120
 agaacgaatg aagaacggat gaagaatggt gaagaacgac ggaaaacctt cacggatttg 180
 ctcacggaaa agtcttgaa gtgttacgga aacacctcgg cttggatttt cttcacggaa 240
 acaattattt tcaccaaaaa caactgaaat gtatagnnaa ggagggttaga gatatttgga 300
 acagcctccc ttcgccaatt tataggaaaa ggggggagga cgttgtcgtc cagtgtgcct 360
 tgaaaatttg aacaccgcta tccgcacccc ctctcgataa gttcacgnntt ttctttcgt 419

<210> 19658
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19658

tatcttggtta aatcagggaa acatgctgaa ctctgggggtg ccctccaagg aaacatactc 60
 atccagatca acatggcgaa ccagtttaag aacatgctga ttgacaataa tggcaaagggt 120
 gggggaaaca acaacgggtca aaaggggtggt ggtgggaata accagccaaa gggtaataat 180
 caacaagggc agaaccacca acagcaactt catcagtatc tgcaacagct tcagcatatg 240
 aaagggttcc aagatctgaa gctgtctcaa ttcaatgaca tgaaactgcc caaccgaac 300
 ccgaaccga acccgatagt cggtaaatta aatttgcttg acgaggatga tttgtctgat 360
 gatgaaatat actagtttga tga 383

<210> 19659
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 19659

ccttctcagc ccacgcattc atagtatatt gatcattaat attcacacaa ataacagaat 60

ctatcccctt agccttaaac ttatcaatat tctccttgta aggaggaaca tgtttgtttg 120
aacaaactcc tgtgtatgca ccctgagaga aagccaaagc aaaaaatata ttactatgga 180
ataagtctat aacaaaaaaa aagtaacaca tttctttcaa acaattccat ttcctatacc 240
ataagaagca ttcattcaac cacataaaat agtaccaa atttacaaaac aagaccaaca 300
aacaccaaag agacacccca aaacatatca acatatcaaa aaaaattgca agttaaactt 360
actgggagcc caaagatgac aactttcttg tcttgaaaca tg 402

<210> 19660
<211> 389
<212> DNA
<213> Glycine max

<400> 19660

agcttttagc caaaatcctg actcaccata aaccttgacc catggtgaga atgtcaatcc 60
ttaccctcgg aagcaaaaaa agaatagagg ggaaatttcc aatcaaagaa aaagagaagg 120
aaaatttcca atgaaagcaa aaaaagaaaa gaaggaaaat tccccaatca aagagtggga 180
gaaagcaaaa aaagaaaaga aggaaaattc cccaatcaaa gagtgggaga aagcaaaaag 240
aaaagaaagg aaaattccca atcaaagaat gggagaaagt aaaaaaggaa gaagaagaag 300
gagagaaagc tcctcatcaa ggatcaaaaag aaaacagaag atatgtgcag agaggtcttt 360
ggaccggaca atatctgaac aatacagaa 389

<210> 19661
<211> 396
<212> DNA
<213> Glycine max

<400> 19661

gcttctacca caaaactatt tccatcacaa gtcataata ttgtaaatgt ttacattta 60
agaatgttgg ttatgacgta atcaaacata aaggttgacg aaaaatgact tacatggtcc 120
acagctgcag gatagagatg ttcaaact tgtcacctga tattatttct gctagatcag 180
catgtgtgat gaaaaatttt gccccaacat taggaagtcc aaattgcgtc gcctcccacg 240
acacttccac tggattcttg tacacgcaaa acaatgtctt catcaattcg cccaacggat 300
cagcttcagc tgcaacctca gcctcaccaa gacgtctaag tggcaaatgc acattatgat 360

ttgaatccta tatggtacaa gaacatcaga agttaa

396

<210> 19662

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19662

tttcttggtt ctactgngga agctaccgag gagtgcttac acttatagta gctggtggag 60
tggtccatat gcgatccacg tggtggtact cagcctggac cccctcttat ttgtgcatct 120
ttatgcgaga gaatttatga cgcattgctca aatgcttact tctctatgga tgtgaaaaca 180
caggtagcatg gatggctgtc acttttcaaa atcgtctgta caagattatg aaaataagtt 240
cagtgtcctg catcagctgg taaagaaaca aaagtttgca tagttttggg agtcattttg 300
tttactcttc ttttcccaa cattcatttg ataagctgtt gtacagtgtt gacatgttac 360
aggattgggt gtaataattc atacataat 389

<210> 19663

<211> 428

<212> DNA

<213> Glycine max

<400> 19663

tgtccacaca aacctgacct tatcattagt attaaagtat ataaatcaag gctcaggaga 60
gattgatcat tttatggtgt ggctgcaaat aattaacat tcaaaagttt ttaaaataaa 120
ctaattatgc atgttcaatc aaaattttgt tgtctttcat aaaaaaaat gttaatgggc 180
aaacataacg gtatacacat ggggacaacc atttaagctt gatgtcaagc aaaacatcat 240
ggcttcaacc ccacgatggg tcatgggtgc aaccgctgt ctcaagtctc taaaaacatt 300
tgcacagaag ttgttcaatt cattgcattt ataattggga taattgtatc tttgttttta 360
atggatctat ttcgaattga aagcttatta tatttggagt tcattaggac attacgctg 420
tattgtat 428

<210> 19664

<211> 390

<212> DNA

<213> Glycine max

<400> 19664

agcttttggtt tcagagaccc cacttggtca gagccatggt ttctgatggc aacacttcca 60
ggattcgatt tcacctttat caatggttga taatgagaat caaagcgaaa tcatcatttc 120
acttgatcat attcatgatt atgggcacat gcatgccaag cttggagtca tttgtgactt 180
ccagatactg tccatgagat aatcttttat atttctgttt tggtttatat attgctttaa 240
tccccactac ccacaatttt taatccatta ttgcattgaa gtcaactatc ttattcaaag 300
tctaactgaa cttaaactttg atctgcttct ttttaagaata acaggggaaca tgtatactgc 360
ttttgtggtg ttttaagaatt tattggggta 390

<210> 19665

<211> 216

<212> DNA

<213> Glycine max

<400> 19665

tgacctatga aactcagctt cggattttcta ggggccctgt gttccgtgcg tttccaccat 60
tctacgcggg cgaagagcac ctttggtttt cccagcacct tgcactatat actcaccat 120
ccttggtgac catccttcac tgagctcacg tgctccact gttcctatat ccgtgatact 180
ctcgcgtcgc agtcctcata aatcctcaca tgcctt 216

<210> 19666

<211> 283

<212> DNA

<213> Glycine max

<400> 19666

tgcttctttt atgattagat tccattgcaa gcataaattt tttcttgaag aaacaactta 60
gtatccttag aagtatttaa atagatgtat cccatcctc aactatatac attatattca 120
cgagaaacaa cttactatcc tgagaagtac tttttgaggg ataattaaag tacttacact 180
attactatta cgtatctaac atcaattttc ttcaatgtga ttttctctt tttctttggg 240
tttatactc tttcactaat ttatgacatc tttttgtaca aca 283

<210> 19667

<211> 428

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19667

ctttgcaata aaattttcttt acaaaattat aattaaaatt tagaactaca ctaaagatag 60
tacaaaaggt actttgatct ctaattatct aaaattcttt catctgatta tttaatccgg 120
ttgtaaaata gatctgggtgt tgtctttata tcatccatta aggaatagaa atttattcaa 180
tccataacgt tttggttgat aacaaatttc cttaatatat attagacaac agcggaaatt 240
gttttcaata tttgattttt cattatatct acaaaagtct aaacaagaag cattcttgtg 300
tgaatttaag aattttgaga tttcaaagta aaaaccttaa tatcagaagt taattatacc 360
gcanacctta attcatttat ggattangaa gggttcattag ttaatcaaat atccttacat 420
agatgata 428

<210> 19668
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19668

agctttatct ntgtcccca ggtttcatgt agacttgtcc aaaatcgcg agtgaacctc 60
ggatccctgt cagatacaat actagaaggc attccatgca accttaccac ttccttgatg 120
tacaactcca cgagtttctc cattctatac ttcatattca ccggaataaa atgagcagat 180
ttggtgagtc gatcagctat gaccacaca gcatcatgcc cacgactagt cttgggcaaa 240
ctagatacaa aatccataga tatgctctcc catttccatt cccgaattta caatggcttc 300
aattctcttg atggctcgtg gtgctcaacc ttagcctttt gacatgtcaa acatcttgct 360
acatatt 367

<210> 19669
<211> 394
<212> DNA
<213> Glycine max

<400> 19669

tcttacatag tccgtctttg cttgaccttc tttatgotta aaaacagaaa cattagggcat 60

atgcaaaaga tcaagaggag ttagtgggtt aaaaccataa acaacttcga aaggagaaca 120
 attagtgggtg ctatgaacaa ctctattgta agcaaagtca acatggggta aacaagcttc 180
 ccaagttttt aagttcttcc tcaaaactgt cctaagcaaa gttcccaaag tcctattaac 240
 aacttccgtt tgcccatcgg tttgtgggtg acaagtgggtt gaaaataaca atttagtgcc 300
 caacttgctc cacaaagtcc tccaaaaatg gcttatgaac ttagagtccc tatcactaac 360
 aatgctcctt ggcaaaccat ggagtctcac aatc 394

<210> 19670
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 19670

agcttgaatt ctaagagagc acaaatccta gacttaccca atttgtcttt tcaatccact 60
 tagcccatcc actagctttt cacttgactt tgttttaaca acacacacac tttatttgaa 120
 cttctttttt ttttaacttac aacattttat taattttttg tgtgttctgt tgtttcttac 180
 ctttaaaatt atccatcaaa ccaactcccc caaatttggg gcaaaattgt cttctaacga 240
 tgtgctctcc taaaaccaa gcatggtaaa tggagatgcc aattcaaagc tcaaggttca 300
 atttgacaat tacaattcag ctcaaagatg ggtgcaaatg atatcatcat tgagaaac 358

<210> 19671
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19671

tgtaggatta tggagtaccc atcacatgtg gtactagggtg gcggtcgggc gatggtgcac 60
 aacaagtttt ccacatccac aaatcacgta taaaccaccc atcccttggt gccacctcc 120
 aactgagctc acgtactccc acgtagccca tatectcggt tctctcatca ccgagtcccc 180
 ataaatcctc acaagcttcc ccaacatcca ggtaattcaa catccaaatc atcacaaact 240
 aaaaaaccaa gcaaaacagg gcaaaggtag aaaactctgc ccaaaactca aacaaaaatc 300
 acagcttttt ctacttaaa gacccagta acatttcctt cgttccaatt cgttcacctg 360

tg gatcgact cgaaaatttt actggaagtc tctagtagat aagcctacan ttgacc 417

<210> 19672
<211> 399
<212> DNA
<213> Glycine max

<400> 19672

agcttggttg acagccaatt tgaggggaac tgagcggttt tgacgcttca ttaaaaattg 60
tcgaactgaa ccaccttttg catactcaga tacaatgcac cataccattg gcttgcgga 120
tgcaccaatg aaacgaacta tgtagaatg ctttagtggt gccaacattg tgacctcctg 180
ctggaactgt tgttccatca attgagcctt tgctggatca ttttcaggcc tctccaagat 240
tttgattgca acatcttcac cattgtaagt acctcggtta agtttcccaa aagctccttg 300
agcaaaaggc tcacccatat tcagtttctt gatatcaatt gtccactcat caaaattgtc 360
aagcccttca gtcggagaac tattgtccat tatagcttg 399

<210> 19673
<211> 449
<212> DNA
<213> Glycine max

<400> 19673

tcaagcttgg tatattgatg ctgatggtgt agttcagttg aaagtactag cagcctgttt 60
gattgacaca ggcgatgaac tccttggtac tgaattaatg tttaatggtg aatcaatatt 120
tgtttcccaa ttatagttta catttcatta tgttttgtaa cctgtttttt tcccttcatt 180
tccctccac cattaggtac ttttaatgac cttgaccatc atcaagttgc tgcccttgcg 240
agttgtttca taccaggaga taagtcaact gagcatatac aactgagaac agagcttgca 300
aggcctctgc tacagcttca agatagtgc agaaggatag ctgaggtagg tgtttggtca 360
cttaacctga atgtatcttc tgaattaaac tataaatggt atcacccttt tgtcacagat 420
acaacatgaa tgcaaattgg atataaatg 449

<210> 19674
<211> 401
<212> DNA
<213> Glycine max

<400> 19674

agcttgatct tgaattaatc ttgaagcaat gcttgtttgt tgaagcaacc ttgtattatt 60
cttgaagcaa tgttttgaat gtttattgaa gtaatcttga aagcaacctt gtttgattat 120
tctttgacat catcaaaatc atgtattcat acattcacat atactaattt gagtcttggc 180
cacatcgtct acaatagtta aaggtaactt acatttaata aaaaatgtta atgagttaga 240
taaaaaaact taaaagaaaa attttgaaaa ttttaggaac caaatgtaat aaaattattt 300
ttggaagact aaaactaata tgagtcaatt aatatttgga gtaacaaaat catatttaac 360
tcttatttat aggtctatca gtttattatg tgaccaatgg a 401

<210> 19675

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19675

ctcaagcttg aaggtgtata gccaccatc tttntatact ggtaatgtgt ctactatcat 60
tatcatcatt ttttctccgt cattgaggtg ccacttgaac tgctaggtct ctccaccttt 120
gggcgatttc ttttgaaaga ttctgtcccc ctttttgac atgttctgta gttgcatcct 180
atcctaagac atcatattga cactgcttaa cgaaggcaac cactangncc ttccaagaat 240
ggactcggga aggttccaag ttagtgtacc aggtaacagc taccocagta agactttctt 300
ggaaggaatg tatcagcaat tcctcatctt ttgcgtatgc ccccatcttt cgacaataca 360
tctttagatg gttcttgtgg caagtagtcc ccttgacttc gtcaaagtct agcaccttga 420
acttgggagg ggtgatgata ttgggtact 449

<210> 19676

<211> 367

<212> DNA

<213> Glycine max

<400> 19676

agcttcttat ccaagactca tcttggcgga gaagctcctt cttccatggc ttattcccta 60
gtggatggcg cctcctctca cctcttctct tttgtcttcc gccgcattga aagctcattg 120
aagctcattg aaggacctca ttgaagctca aagatccagc ctccatagaa gctccacaag 180

caagcttcca tcaagtggta atcagagcat aagagcttca agtaggtgct ccttaaacca 240
tgaattgtgt tgggtttagg ttcctttgtg tttagttttc atatagaagc tagatttgat 300
tctctatggt tcatatttct tgttcttgtt cttgaaccat gaattgtgtc tggtttaagt 360
tcctttg 367

<210> 19677
<211> 438
<212> DNA
<213> Glycine max

<400> 19677

tagccgaatt cagatcgaat tgaagttagc ttagctcatc cttggtcagc ttagcggacc 60
aatcagcct tagatgcaag ggttgggcac taagcgcttg agactcgcag cttagcgcac 120
gaacaaagat gcgcttagcg tgaggcttgc gcttagcgaa aggactactt tttagaaaaa 180
agttttctaa gttatttttc agtccttttt ccaaaaaatt gaaaccctta tgttaaacad 240
tcaaacatag gctaataatc tcctatgtat agatcatata acaagttcca aatgattaaa 300
tgcattaaaa acaaagataa cagaaattaa aaactgggtt gcctcccagg aagcgcttct 360
ttaacgtcat tagcttgacg cttttacctc accgggtgat cttatgtttt ggttcttact 420
ttcagaacct cttgacct 438

<210> 19678
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19678

agcttgtctt caaacttgct tgtaataggc tgccaaacac tccagctctt agaagacacc 60
cctaccttgc aagtattttg ttcaataatg tgattgaagc aaatttttta ttagatttaa 120
ttaaataaat gtttagtatt ttgttctttc ctattagtct gttgatagct aactggaata 180
aaagaaaagc taaggctcga ccagttgata gctaattgga ataaaagaaa agctaaattg 240
cagggaataa ttatgatatc tttttatttc atcattaccc cttntatag ccatttcata 300
caagatattt tgctaagttg ttataacaga attttgaaat tgcataacca cacaggatc 360

aagtaaaacg tggataaagc ttttaagcg

388

<210> 19679
<211> 443
<212> DNA
<213> Glycine max

<400> 19679

tcaaaacaca gcaacaçaga atctaggtgt ccaaaacccc tcaatttaat ggatttttcta 60
ggtttgagaa gtgaaattga gaatgaggta aatttgaagc aaactctcac ctacacaag 120
tccataacat caattttaaac ttgtccaaac tggatttaca cctgaaattt caccaaata 180
aaatttgact cctcaacacc caaatttacc ctaaaaatgg ctctttgttc actttgggtca 240
tttgtttttc tctctagctc agcctaacct ttctcataaa tcctaaatga catttcaaac 300
taggattaac tcatttgaac cttcatttac tacagaatcc agatttaacc ttccaactca 360
caaagcctca ctcttttttc cactcataac accacattct cactttctaa ccctagggtta 420
actctaccct tcattctctaa cag 443

<210> 19680
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19680

agcttataag atatctgctt atgcggcttt ctatggttgg aaaatgtgga acgttggttga 60
gtatctggga ggagatgcaa gaatgtgggt atagtctgga cttggaagtt tatgagtaca 120
tcattagtgg tctttgcaat gtaggacaac tggaaaatgc tgttcttggt atggaggagg 180
ctttgcgcaa ggggttctgc ccaagcagge tagtatatag taaactaagt aacaggctgc 240
ttgcttcgga taaatcagan agggcttaca agctgttttt gaagatcaaa catgcccgtt 300
cccttgataa tgcaaaaaaa tattggcggtt ctaatggctg gcacttttga acaggcatgc 360
taatcagaag ctcttacagt agatcctctt ggttgctct 399

<210> 19681
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19681

atatagctna catctganat ccttaaagaa gactgatgaa atgcatctta tagctctcat 60
gttttaagca tacgaagcct gttggtcact atctcattga taaaacttgg aggttaagag 120
ttgaaggctct agtagtgaac aatcacgctg taataatcaa taatgggtccc caccctcttc 180
ctattattat tattccaaaa gagctacttg aatcatcact gtcaaaaaat tcagagctgg 240
ataagttgta acaactgaca aactcttgta ttctctccat cttgaaccct acacaccact 300
gtgtgtagtt gcaacttgca agcttgattt gacttcatct atactactat atatgatttg 360
cacaatcact ttagctcgta tactagttgg ataggtgttt aattctagcg attagtcaac 420
aagcacg 427

<210> 19682
<211> 391
<212> DNA
<213> Glycine max

<400> 19682

tatcttaatt agagtatctt taatataaat tattgagctc aagaatttct atccaccaga 60
tctattacta ttctgttta aaaaaatttc atgcggaaag ttgaattcta aggaaagaac 120
tctcaagaat ttactttta tcaaaaaagt attatTTTTT aatgtcgttt gagggaaaag 180
aaagatctta tttttctttt atgtacaagt aaaatccaaa aatccaaatt gaattttatc 240
agtaaagtaa acatgataaa agttctttat catgagacct ataaaaaata atctaaaaac 300
aattcttcca ttaaaatgct cttaatgttc acatggcgag acagagaagt tattaacaaa 360
cctttgatat taacaatgaa gttaccaatc a 391

<210> 19683
<211> 425
<212> DNA
<213> Glycine max

<400> 19683

tgcagatttc ggcttggcca tgagagtttc cgaaggattt tggccgtgaa acctgtatgg 60
atattttttt tctctctgta tgtatttaac ttgattgaa tcattgctgt cccacctgcc 120

ttttgtaaaa aattgtccag ttcagtagct atcaataaaa taaatgtgta tggcttatga 180
 agatatgcta atattttctac gttatgttca tttcagtttc cgtgtatttg tattttggga 240
 tttcttgtgg catcttttcta ataaaaaaaaat gaaggaattc atcatgatga gctttcaact 300
 taagactaag agtcatgaat tttgaaagtg attgcatttt gagtaggaac aggtcgggtca 360
 cgttcggggcc aaaaaactca gtctgaccaa accttatgtg ttgctacttg agttccataa 420
 ccgac 425

<210> 19684
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 19684
 ctaaacaaaa gactatcata tagcactcta ggttaagtta ctatgtcaac tgtcctctga 60
 tcatgggtctg gaaacaccaa tcacacacgc gatgaattat cgaactcagt tacatgggtg 120
 gacatgatca aaggatgaca ccttaaataga tcttcactat ttccaacgca gggttgtgga 180
 caaaacatca cgagcttaga gaattttcttt acgatgccca caaatatggc tctaacgact 240
 tcctgtgcaa tgcccacatg tacatttatg accata 276

<210> 19685
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 19685
 tagatggagt ataagacaga gagaaggaca tgacatcggt aaggagacga ttcataccta 60
 ggtatgggtg ccacggagaa gattcagaga cttgtgacga tgctcgattg cgatgaagac 120
 gatgctcgag tgctacaaac actatgctca gatgcgtaca gatattataa gatgaataga 180
 gcgcgatagc ttagatggag atgaatacag atatccagct tcttagggct caccatattt 240
 tttaaaatat aacttcaaca tctgttctaa aaaaaccgga tgtaacaaa atgatgttaa 300
 ggttaacatc tgttgtctgg agaaaaccga tgtaacata acaccggtta taattgcccc 360
 ccctcccacc ccacgttaat aaacatatgt taacatcggg tatttaaaaa ccgatgttac 420
 taataaatgt t 431

<210> 19686
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 19686

tatctttcac aacatccaag caaaaaaaca ttcaaacagc ataagctatc acagccaagc 60
 aaaacagagc aaaggcagaa aactctgcca aaacaccaac caaatcacag cttttctcac 120
 ttaaagaccc cagtaacaat tccttcgata caattcgtaa accgttggat cgactccaaa 180
 attttactgg aagtctatag tacataagcc tacattttga ccgttgggat ctactagcaa 240
 acattcagaa ctcatctgt actactcttt ccacaaccaa tcacacacaa gcatttttct 300
 gcacaaagcc aaaatcctgc tgcacctatt ttgacagcaa aattctgcat aagtgcagat 360
 ttcgaaaatc acacttgccc tcatccaatc 390

<210> 19687
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 19687

aagaagaaga agaagatctt caaagagatt tcaaggcttg taaaggattg attggaaaag 60
 caaaagtatt caagattgct gttagaaaga ttgattggaa aatgaaaaac aaagccttgc 120
 ttttatagac tcttcatgtc tggtaagaa ggtcattcag aagagttata acttttagaa 180
 aaacttaaaa ccatttgaa aaagtcaaaa ctttttgaa gagttacatc tatagatttt 240
 tcagaaacaa acactggtaa tcgattacca aatatgtgta atcgattaca caaagctttt 300
 gagtgaagaa atgtgactct tcacttttaa atttgaattt caacgttcaa ggacactggt 360
 aattgattac caaaacattg taatcgatta cagccttttg aaaatatctg gaacatt 417

<210> 19688
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 19688

ttcttttggg ggctatggag tttatcctca atactatgca tcatataatg aattgaaagt 60

gagctcatgt gcacataaat attactatct gagattaatt tatgctttgc tagcattaat 120
 tgactgttaa acgttatgcg tgaacagttc tgtttctgta catttgtact gtgacaaatg 180
 tgaaatgctg tttctactaa agtcatgcta atttttcctg cctgtctgca acagattatt 240
 atagttgtta tatctcatgg tcaaattaac tcgacgtcat cattgctttt tgtgcatat 300
 atattaactg ggttaatgtg ctatattgtt acatgagctg catccaacag tgcttgcag 360
 ctgactctta ctatccaatc ttgg 384

<210> 19689
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 19689

ctcctacaat agaggaaaca caaaatgaat ttgaagagaa ttcaaattgc acctctgatg 60
 gaattcaagt ttccataggt gaggaaaaaa cacccaattg cacgatatgt gaaaatgaag 120
 tggatggcgg aaaaataaaa atatgtggcc atcggttttg ctccaataaa tactaccatg 180
 ttaggtgtct aacaattaat cagttgaagt catatgggtca ttgttggtac tgcccttctt 240
 gtttatgccg ggtagctta actgatcaag atgatgatcg gattgttctg tgtgatggct 300
 gtgatcatgc atatcacata tattgcatga gacctccgcg gacttctatt ccaagatgga 360
 actggttctg cagataatgt gatgctggaa tacaagcaat ccaccaggct aaacacgcat 420
 atgagttc 428

<210> 19690
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 19690

tgttttctag ctcttcattg gtgtattttg atctcctttt ggtgctctaa attgtgggaa 60
 tgtgctcaca tatgtggggc aattttggtt tgttttcttg cttgattaag tcgaattggg 120
 ggtttgtatg agatggccct aggcctataa tgcattttga agtaatgggg catgccacat 180
 tgtccccgtt ctcttgctat tgatgcctaa acgcgcgccc acacaagtgt tctgtgaaat 240
 gcctcaatgg cattagcgcg tgatttttgt agggaaacaa cccatggggc gacttggttt 300

gcacatatta ttgggacatg cattcatttt cgaaagagct agagtaattg cccacatgt 360
g 361

<210> 19691
<211> 418
<212> DNA
<213> Glycine max

<400> 19691

tgaatcggac atccgtgtga aaagtatatga ccatttgaat ttctcaagag cttccgttgt 60
tcaatttcga tcctctcgac atattatgca cccgaatcgg acatctgtgt gaaaagtcac 120
gatcatttga atttctcgag agtttccgat gtttaatttc gagcgtatcg atatattata 180
accctgaatc ggacctcagt ctgaaaagt atgaccattt gaatttgaag agagcttccg 240
ttgttcaatt tcgaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300
ttatgaccat ttgaatttct caagagcttc cgttgttcaa ttctgagcgt ctcgatatgt 360
gattcgctg aatcggacat ccgtgtgaaa agttatgacc atttgaattt ctcaagag 418

<210> 19692
<211> 381
<212> DNA
<213> Glycine max

<400> 19692

agcttggaga ggatgcttca atggaggaaa agaaagagg agagaaagag agagagggga 60
agttgaactt tgagttgtgt ctcacaagac tctcattcat caaagttaca acaagtgtta 120
cacatgcttc tatttataga ctatgtagct tccttgataa gctttcttga gaaaacttcc 180
ttgagaagct tctttgagaa aacttccttg agaagctaga gcttagccac acacaccct 240
ctaataacta agctcacctc cttgagaage ttccttgaga agattcctaa agaagctaga 300
gcttagctac acacaccccc tataatagct aagctcacc ccatgccata atacattaaa 360
atataacaca aaagtcctta t 381

<210> 19693
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19693

tagtgaccaa tgggtgcttg aatcccttga acattggctt gtcctagact tgtttaatgc 60
tccaaattca cctaagttga agctcaagct aagccatttt tgtttttgag gtctactgaa 120
cttttagaga agagaggaga aagagttctt gctttgattg cttgctttct tgagtctttg 180
atctccaagc ctcccttcca ctcttcacca tttttgtgca ccaactgagg tatggaggag 240
ttattcattc ttattcttgc ttgttttagag gaaacaaatc tttaaagata agatcccat 300
cctaataaag gttcatatta ttgtctaagc actaatcaga ggaggaagga cgtgagcatt 360
gcagattcct ctacttttcc tatatgccat gaccaaagt agacanatgt ctataccttg 420

<210> 19694
<211> 351
<212> DNA
<213> Glycine max

<400> 19694

agctttaccc gtaggataat gtttgttttc aataccgccca ggtaaaagtg tatggccgtc 60
gatgtccgat gaacggcgct cgctgtccgt ggtcatgcct cccggcgctg agcactcgct 120
atcgaccgta ggcgctgggg ctgccgccgc tacctgcaag ttagtgatgt ccgatgacag 180
gcacgcgctg tctgtggtct tccctctcgg catcgagccc aactgttga ctgtgggtgc 240
tgaaactgcc gccactacct gcaaggatat tgaggtttgc agcgacggca ttgtgactga 300
ccgcggcgag gccatgtcac tctcctccat aacacttcct ccgatgaact a 351

<210> 19695
<211> 421
<212> DNA
<213> Glycine max

<400> 19695

tgtagatccc ttatgagttg aatcgacat agaatcgttt ttttggtagg ctcgagtaa 60
actctttaca atcatagttt tgttactgtg ccgacgattc tactccacac catagacaac 120
accgtaatag tatgtcacga cagtggctgg gagaggcggc atggcgaagt ccgtgaacga 180
gggtttcact agtgaggttg gtcgaaaatg gcggacatgc aacagaaaag gatgcatgaa 240
gaagagaaag aatatattta tatcattgtg gcaaaattag ttctatgatg tggcgtgcc 300

gcgacgatgg atgacggtgg cactgattat gtgaagcttc atgctaagca taatgtcgca 360
 atcactattg gaacgagggc gtcgtgtgag ataaaaatga ttatgcttgt gttcggatta 420
 c 421

<210> 19696
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 19696
 agcttgagct catgtaggta atgaactctg agagtgcaaa ttgatttttt ttcgcacaaa 60
 ataagatggt ttcctatata ctagctttga cataataagt ggtattgtgg tagactaaca 120
 tttttttata tattttccat tgaatgctct tctcccccatt taagcttggt caaatttcta 180
 tccattaaaa gcagcctcct ttaagtagac ttttcatctt agtaatagga aatgaaaagt 240
 ccattcata atgacatttg gaaactatta ctttttgatt tggagattaa gattatcttt 300
 taaatgtttt cttcttcaaa catttcaaatt agaacgcaat tcccttataa catttatatt 360
 tttggataag aaaatggaca ataataaaat aagatgt 397

<210> 19697
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 19697
 tgagatgagg aagtgttgaa gggtgaaact tcctgctttt attgttgacc acagagtggg 60
 acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcaggtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aagcaggcga gtcctggga gtcaacagat aaaaggaaaa caagaccaca 240
 aagcaaggag gcttgtggtg gctggccagc tgtgaatttt gtgtaatatg tggattgtgg 300
 cctctggtaa tcgattacta aggggtggga atcgattaca aggcttaaaa ttgaggacag 360
 gaggctaaga tggctctctg taatcgatta ccaaggggtg taatcgatta ccaggcttga 420
 taacgaagtc a 431

<210> 19698
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19698

agcttctgtc catggtgatt aagcattgtg taagcttttg ccatgaattg ttaagcattg 60
 aattattatt ttgcttctgt cttgaggggt taagcattga ttttagcttc ttctcttgat 120
 ggtaagcct tgttatttct accaagtggg taaactttga ggtatagttt ctgcttggtg 180
 gttaagcttt gatagttttc tgaattgatg atttgagctt ttgtcaaagc gccttggtgt 240
 gatttcgctt gatgggttaag ctttgatact tgctttggac tcttggaaaa agattgagat 300
 agtcgatgat ggtcgaagat ttttagaaga tatgcacat gattgcacct acattttgat 360
 ttgtttctaa atttcaattn tgaccgatgt attt 394

<210> 19699
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19699

tattatgtct canatgggaa gcagcacatt ccaccagaag atttttggta ttctcactac 60
 agaaaaaac atacaaacag ttccacaata aatttcagat aagagaagac attaaattga 120
 aaaggaacaa taagtaatta ctgaatgtga taaggaaatg tgtcccagga aatgtttatc 180
 ttctcccaag gaataattct tctcataaac tcttttttaa acttatccct tgttgtcaaa 240
 aatgggtgatt ctctcctttt actttctata gaaagcttct cattattaag ccattcctct 300
 tgttcctggt ctccaagtcg tgcattgtga ttgctgtact tgacatcttt cccaaacttc 360
 tcttggtggt tctgtccttt atcaaagtta gtcctcatcat taacatttac atgtttatcc 420
 tcacttgcatt ttcttccatc actt 444

<210> 19700
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 19700

agcttgaag tatttggtgg tataatttgc ctgttccatt atgcttttaa tgtctctaga 60
 ggttacttcc tcgttgacat cttttgtttt gaatggaatt gccataacag gtttgttggt 120
 actgtctttg atatttggtg gttgatattg tgttgtggga ggtaattccg attggattaa 180
 ctcaccatcc ttcacttgcc aatttggtat gacatttggt gttggatcac ctatgatgtc 240
 ttgtttccga gggtaatcta tatgctttct gatgagcata agcatgaaac ctatcgaaga 300
 aacagacatt aattttgact ctttcgacaa attcgtagaa cttgtcatgg attt 354

<210> 19701
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19701

ntgtgcgatg tctatccatc attaagcggg aaaatcagga aaaaatggtg atttacaccc 60
 gattgagact acctcattca taagcacttg taagagaaga aaataagaaa gtaaaatgag 120
 taaaaatcct ccataagtt agatgagaca acttttataa gagttaagta cataagttga 180
 tccaaacagg gttttagggg aacttcaa ataggctcaaca aaactaaatg caacagctca 240
 caaaaagcac caatgtagag ataataatgg aagcgcattc caccagaaca tgtagagata 300
 ataatgtaca atgcacaaac aacaccaaga aacctgcaat taaaaccat caaaacccaa 360
 ttgattctaa agaaatcgga taaaagttag accatcaata aaattttaaa aaagggaagc 420
 aaaagtcaaa acttttccat t 441

<210> 19702
 <211> 400
 <212> DNA
 <213> Glycine max
 <400> 19702

agcttatgct gcaaatatatt acaatagacc tcctcaacct cagcagcaaa atcaaccaca 60
 gcagaacaat tatgaccttt ccagcaacag atacaacctt ggatggagga atcacccata 120
 cctcagatgg tctagccctc agcaacaaca gcagcctgct ccttccttcc aaaatgctgc 180
 tggccaagc agaccataca ttcctccacc aatccaacaa cagcaacaac ccagaaaca 240

accaacagtt gagggccctc cacaaccttc cctcgaagaa cttgtgaggc aaatgactat 300
 gcagaacatg cagtttcagc aagagaccag agcctccatt cagagcttaa ccaatcagat 360
 gggacaattg gctacccaat tgaatcaaca acagtcccag 400

<210> 19703
 <211> 435
 <212> DNA
 <213> Glycine max
 <400> 19703

tctggaaaat tgaagttcgt ttttataacc ttttcatgtg aactttcaaa catattattg 60
 agctcattta cactaattta atgtagtcca aaatttaaac acatgatttg agattttaga 120
 aatgatatta attcgtattt agtaatgaat atcatgtttc gtaactatat tagctcttat 180
 atttcatatt tatattttct attattcctt tgaaacaatt tatacttcaa tgttggttctg 240
 agactcctca aatctatttg tgctgcaata gttcaactat ttcatttgaa ctggattggg 300
 gtagttggta tgaaattggg ttacctgaat tcgttacaaa taaagtagaa aatttatata 360
 taaattgttg gatggatttt gttggacaat tgtgctataa gtagtacata tacatgatca 420
 aacaaaacat gataa 435

<210> 19704
 <211> 385
 <212> DNA
 <213> Glycine max
 <400> 19704

agctttgatg tatatatgca aactcaactt gtccctttct ttgagtttct catacttata 60
 atattataat atgtttaagt cccaataaac gaattttcat ttgggtcatg tcatcacttc 120
 acttaactga cgacatgaac tcatgacaaa agttttaata tattaagcac ttaaaacaaa 180
 attcatatca tttattaata tottaaagggt atttaagtct atattatatt attcactctc 240
 tcaactctgta tatatatata tatacaggat gttgttgata tcagaaatct cagtctgggt 300
 tacactcttg ctggaggtaa ggccttttat aactataagt ttttaggatt aatattaata 360
 taacagaaga tacatgcatg ataaa 385

<210> 19705

<211> 415
 <212> DNA
 <213> Glycine max

<400> 19705

tgtacgtgaa tattttaagac ttcagactca cttctctttg tcttgggaaa tagattcagt 60
 gcagtcacat tttcatgcat tcaatttatt ttatatattgt tctaaatttc agtagttcaa 120
 ttttgaacaa ctgaaatttg gaattcattt tttaaaatta attggtcgaa ataaaatatg 180
 agttattcaa tcttcatttg atagttccaa gttactaaat gcattgaaaa gtgaacgcac 240
 aggatctgat cctctgcctc agtctttcag tcaatgatag gtattctcac acaaccttcc 300
 aagctagctt gctccaattt ttgcaaaatg cctcaatcct aatagtatta aatcctatgt 360
 aagagtcaca acataagtta cataactgaa gagttattaa attttaatat tattt 415

<210> 19706
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 19706

tgctcgtatg aattacattc tgcccctagc tcaagcaaat tcttaattct tcttgacatc 60
 atcaaaatct tcatgattga catgctaccc cttgttgatg acgacaacca cctgtagggt 120
 aggagcaaca acaaagaaaa gatctatttg catataggta tactccccct tgtgtttaca 180
 atgattgctt atatgagaca attgaagatt tcatattttt catatataaa aagttgtctc 240
 atacaacagt aggaaaagct tcttactatg ttatctacta tcattctctg accctttgac 300
 aacatc 306

<210> 19707
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 19707

tgtataatca aattaaagc gcttgatata taaggctatt tactatatta tataacttat 60
 gtaacttata actcatataa acttttagtg aaaccaacct attcaatcta aacttaataa 120
 ttatgatgga attgcaatgg ctgctctccc cattatgaaa tactgccttt atatattccc 180

ccacttcaag tagtacactc accaccccat tccaattctc tctcagacac tcagacatag 240
ataaatgata atggcacagg ttgggacagt aattatcccc cactccattt tccagtgtccc 300
atttattttt gtttttgaca gaaagtgcga atttattatt gaacaatgaa taatgattca 360
tcaacattca tccactctaa acatctcatt aatacataag ttttatcttc attattacat 420
taaataatct at 432

<210> 19708
<211> 396
<212> DNA
<213> Glycine max

<400> 19708

agcttcctcg gtgccattcc tgcgaaggca aacatttgga aagttagttt tagtgggaca 60
ttactcttaa agcaaaaatg gcatgtaacc tcttcccatc aatacaaaaca tcaatgtaaa 120
tttagagcaa gcttatgcgc atatttccct acgaacgttc acttgacaaa gacatcctat 180
taactaagaa aaatgcaccc atatacaatc aaggtagctt ccttacctag attatttaca 240
tgtacttcca aagtgtatct gttatttaca tcatacacgc catcttgctc aaatttacac 300
acatgcatac tcaaagcatt tcgggggtacc aaaaattgca catgcgctca tcttggtatt 360
tctaatatct atacatatat aaacttcatg atgaat 396

<210> 19709
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19709

tataaatata ttacatgta tcaaatatat atataattaa taataacaat aataataaat 60
gtatcattag ataaatattt atttaaatat atatatatat atatatatat atatatatat 120
atatatatat atatatatat aagcacataa aataattaaa tgtactaaaa acattaacat 180
gaatatacta aaatataaat gtaagtttaa taatatatat atatatagaa gtaattttac 240
atgtatatat ataatttgaa tgattaaatg cattaaatat aaaataataa gaacatgcta 300
aatatatcct tatataaaaa taaaatatat atgtataata tatgtacata acaacaaaaa 360
gtttatatat atatatatat atatcctana tgcattccaa cgaagccatg aaaaccaaac 420

aatgagaaac ga

432

<210> 19710
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19710

tgctttgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
ttaccctcgg aagcgaaaag gaaagaagga agatttccaa tcaaagagaa aggaaaaaaaa 120
aagaaagagc agaaggaaaa ttccccaatc aaagagtggg agaaagcaaa aagaaaagaa 180
agaaaattct caatcaaaga atgggagaaa gtaaaaaagg aagaagaaga aggaaagaaa 240
gtcctgatc agggattgaa ggaaaacaga agaatgtgc agagaggtct ttggaccgga 300
caatatctga acaatacaga attgtcacca aatgaacaaa aaagaaggaa agganaccac 360
gacctataat ggtcttctcc ctttgattac caacaaaaa 399

<210> 19711
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19711

ntgaggtacc aatcattgtc tttcatcatg accgtgtagt aaggaaccta ttgggtgaga 60
actttcaatc tgcccctaga ttcgcttgag gtttatgcat ggtacctttc attgccccag 120
tgtagggctt tgaggtatcc atcgttgttt tgttttcaca accttgtagc aaggaagaat 180
gaaagaggcg gtttgattct cgcaaaaaga atttttcaag gacgagaaat agttgaagga 240
ttttttttga gttgacgggt taagtcaaata gactcctatt cttgataact cacttctctc 300
taaaaaagac aaacttttag gaatgataaa atgaggtcac atgaatgtct atattttttac 360
ttgaaaacac agtcaatcaa atgctntttt cttntcttt gtgaactctt ttttttttgc 420
tttactcgt 429

<210> 19712
<211> 388

<212> DNA
<213> Glycine max

<400> 19712

agcttttttaa tcatgttttta tgaacatttc atattaaact acatcctgga agagaaataa 60
taatataata aataatactg acgtgaccaa acaagaaata taaaaaagtg tcaaataagt 120
gcatctaata acagtattta gacttttctt ccctgattta cttaaattcca cgtgattttc 180
attattatct taatatcagt atctaattac actgtttcct aaaggcatat aacattgtgc 240
accaacttct gcctcatcga ttcccaacta tccaggggac gttctgggca acaatttttt 300
ttatttggtc aaattaaatt tcaaatgtcc acacctagca tgtagattca gggccaagaa 360
ggaagttggt tatatactgg taattggg 388

<210> 19713
<211> 422
<212> DNA
<213> Glycine max

<400> 19713

tgtactcgaa gccctctttt taaggctgag gctccacacc gccagcggat actagctgct 60
gagtctgcta tcttcaatcg actttttgtg gagcgggcat acaagtatcg ccctgttaag 120
gtggtggaat ttgaacttcc gcggcagcag tgtgtggttt acttggatct gaagcgggag 180
gagtgcacca atttgttccc atctggccga gtatattcac aggcattcca tttaggtgga 240
caagggtttt tcttatcagc acattgcaac atggaccaac agagctcttt ccattgcttt 300
ggcctgtttt taggaatgca ggaaaagggc tcagttagct ttgccgttga ctatgagttt 360
gctgctaggt caaggccaac agaggaatct gttagcaagt acacatgcaa ttatgtattc 420
ac 422

<210> 19714
<211> 389
<212> DNA
<213> Glycine max

<400> 19714

tagcttatgc tttgaaaaaa gtctaagtga gtctaccttg tatgtcaaga agagggatgt 60
tggaatagtc attgtttcct tgtatgttga tgacttactt atgacaagaa gttcaaagga 120

gctgattgaa gagttaaag gaggaagaa agaagccttt gaaatgactg atcttgaaa 180
aatgttcttt ttccttgga tgcaggtgca acaagataga ggtgaagtct ttgtaagtca 240
agaaaaatat gcaaaggaaa ttcttagaaa gttcaagatg gaggaatgca agccaattgc 300
aacgccaatg aatcataagg agaaattcag caatgaagat ggagctgata acgttgatga 360
aaaactgtac aaaagcttaa tatgatgtc 389

<210> 19715
<211> 410
<212> DNA
<213> Glycine max

<400> 19715

cgagctctga cctttttatt aaataagttg agtcacgtta gtccttaaag gagttagaaa 60
ataggcctct gagacgggtg actcacccta cttgtatccc taattgtgtg tatattgaaa 120
cataataaat tccatagaat actttatact attgttaaag attcctagtc aagtattatt 180
gtcaattttt gacaaaaatc atggattatg gacaaagtga ttataaagtt agtcattgga 240
cataacaaat tatgaagagg gatatgaatg atctagatga aatttattcc tccttcataa 300
ttagagtaat atctatcaac catcttaata aagtaagaag ctaggcatag ttgtgctcaa 360
tgagtcaata tgggatattg atctcatcta ttttaatgtc ttttcaaagt 410

<210> 19716
<211> 411
<212> DNA
<213> Glycine max

<400> 19716

tcttagtttc aatgatgcag atgagtttgt ggctacttca tgcactcctc taatgactat 60
ggcatcattt ctggctctaa actgttgaga gttggaaacc atattctcaa cttaaatttct 120
ggcttcagca ggggtcatgt ctccaagggc tccaccactg gcagcatcta tcatacttct 180
ctccatgtta ctgagtcctt cataaaaata ttcgagaaga agctgcttag aaatctagtg 240
gtgagggcaa ctggcgcata gttttttaa tctctcccag tattcatata ggctctctcc 300
actaagatgc ctaatgccta aaatatcctt tctaattgtc gtggctctgg aagtatggaa 360
aatttttttc taagaatact ctcttgaggt catcccagct cgtgatggac c 411

<210> 19717
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19717

agctttaagg tcaagagggc tgaaggatga tacaacttgc ctcgtttag atattattcc 60
 ttcagatcat cccgtgttgc caacaattcc aagaaagaaa cgtaacgtgc taacttcctt 120
 tctctttgga aagaaatctc aaaactctac aaacaaaggc accaataagc tttcttctgt 180
 tgggtgttgc gaggaattat ttgaagaggg ttctgcaatg cttacagaga ggtaactggg 240
 accataactg ctaaatttat atttgcata tgtcatttga agtttaattg gtcaccatca 300
 tgggtggaaag agagaaaaaa tgantccttt ttccaatac atctatcttt gattctntaa 360
 atttcggact taaaat 376

<210> 19718
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 19718

tgaagcagg atgatggaac aacggccttc taatgctcaa gaaaatagaa gagtttctag 60
 ataagtgtta ccttgtatgt gatgttaaga acataattag ttttactaat ttgtaggatga 120
 atctcgagtt gtacgtactc ttgctttcac gatctatctt ctttttgcca tatgatttta 180
 gacaaaagta taagttgggt ataaaggagt tttccgcatg gtctcgtggc ttttctctat 240
 agaaaaatac agcatagaac ctgcgttctc gttaaactgt actattttca ctactaagga 300
 catgattacc attgtgtttg gttgaaaggg agaaaaagaa gtgaaatagt gaaagagagt 360
 aaagatagat gaaatattta aattaaagtt ggttgctaga taaacaaaag aaaaaaaaaat 420

<210> 19719
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19719

cccaccaagc cccacagaaa acaataaaaa aaaaacccaa tcnnnnncag agagatcagc 60
 actcancccg aatgacaaac cggaccaaag accccagcac cacagattaa cccaccccca 120
 naggggggga gaacaaacga cccaaaacac caaaaggaaa agacaaacag aaaaacgcaa 180
 aaaaaaacac aaaccaagaa caaacaaaac aacacacacg acaaaaagaa acaacacaac 240
 aaaacaaaac aaccgaaaga cgaaaaaaga ccaaaaaaag aaccacaaaa caaaaacaaa 300
 ccaccaacaa acccaaaaca gacaaaaaca caaacaaacc aaaaacacac accccaacaa 360
 caaaacaaac cagaacg 377

<210> 19720
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19720

agcttgcttg tggtttcttt attaaggggtg gatctctgag ctgtaatgag gtccttcaat 60
 gatgattttc cacgatggag atgcagcgga agacaaagga gaagaggtga gaggaggcgc 120
 catccacaag ggaataagcc atggaagaag gagcttcacc accaagatga gccttgata 180
 agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240
 ggagcacgaa attgaaggaa gaaaaagggg gagaagttga actttgagtt gtgtctcaca 300
 agactctcat tcatcanagt tacaacaagt gttacacatg cttctattta tagactangt 360
 agcttccttg agaagctntc ttaagaaaac atccttgaga agcttctttg a 411

<210> 19721
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19721

gtaggcctag gatcttcttc atcaatggat tcctttgctt cttggaagat gtatggcagc 60
 gtaatggaga aggaagagag agaggagacg ccacttcaag gagaagatga gtctagaaga 120
 agctcaccac cataggaggc catgaataag agcttgaggg aagaagaaga tgaatgaagg 180
 gagaggaaga gaagagcacg aaattttgtg ctctaaaaga gctataaaat ctgaagttta 240

attttcaa at gatcaaagtt gaaaaaatgc acacacatgg tctctattta tagcctaagt 300
 gtcacacaaa attggatgga aatttgaatt tctattcata tttcacttga atttgaaatt 360
 aaatntgtgg agccaaaatt tctaataa tgattagtga attttagcta tggttcagcc 420
 cactaatcca agatcaagtc caagaatctc cacta 455

<210> 19722
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 19722

agctcagctt tcattatcct tgttttttct taaatctcca tggcatactt ccttgtcttt 60
 tcttaaattt ccatggcata cctaccaaca agcttagcac tcattaacct tgggtggagtc 120
 agccaagatc ttttattaaa aatgggtgaca aaaaatcctc cttgacttga gtgaagccac 180
 cgatcactac atgtaatgac aatggtgtcg acactcagca tagataatga agtaaagca 240
 cccaatagcg aggtggcgat atataatgag gtaactatcc tcaactctgag tcataccaaa 300
 ctattgaaca atggtgctaa gtctacaaat acatgctcta gagattgttt aagaccactt 360
 atcataatat cctgtgaaga ctacaaaaa gttgtgaaga ccataattac cctatgtaca 420
 ttatta 426

<210> 19723
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 19723

tagactaata tcatgtttat tagacacgga atggtatcac ctctatcata ctatatcgta 60
 cgttatgtat gccactcaaa acgacatgta tttcaaagtc caagcgaact ctgatacttc 120
 gatccatgaa agtcattttc taagccgccg tcaagctatc agttccatat agattacagc 180
 tccatcaagc tgcgtttcaa taataattct acacatactt ttgcaaataa tatgtcttaa 240
 cttacaccaa ccacaaccac tacatattca attacgaacc gcataatat aatctcgta 300
 cacgcatcat tatgattcac tatacacacc 330

<210> 19724
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 19724

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agcttttcatt gttgtttctac taatattggt aattgatgac cgtgatgcat gtttgtgcca 60
gatcattgac aatgtttcat aatgcagaat aatttattct tttgcagcat tgtgattttt 120
caatcacact tggatttggga taggttccaa ttaaggcaaa aattattata tttgcttgat 180
caactaaaat gttcttttgta catatttttc tgtgtatata atattaattt atgtatatct 240
aatttttaat atttctgtta tttattgtta ttgtattttt ttaattatca tgtgatgtct 300
tgggtttttat ttggtagggt tttttatcat tctaatacaca ttggtgatga tgtaattta 360
actgtgattc tattcttctg accttgctat gaaatgatat taaagatgta c 411
```

<210> 19725
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19725

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tgtaactcaa taatttttagt tgaaattggt gaatttacgc atgcaatctt aattctcaac 60
acactntttg gatgagtctt ccaaggattg tgttgccttc tctaactttc cttccttttc 120
cagtgataag gtaaagctac aaaatcgagt ctcccaattg ttgatataag ttttgtaaga 180
ccatctttta ttcgaacaag tggcttanag gtgtaaagtc acaatccttc caagcgagca 240
actcaaaggt gtaacgccat cttaaaattt cgtatgagca tcttcaatga aaatggaaga 300
cttgaacgaa aatgggttggc tcgctcctca ttgctctggg aatagataac gatctatata 360
atgagcaciaa tgtatgaatg atggaaaaac tccaatttat gtcacccag gttaagactt 420
gtagttcaca ctaatcaatg actaagaaac aagaac 456
```

<210> 19726
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19726

agcttattat gtctattgng gtgcagaatg ctactgactc taccaaagtg tttctccgaa 60
ggagttttgc aattctagaa gagaatagac tacgacacca agaggctatg cagaagggtgg 120
catccgtgga ggcagaggtc gccaaagtaga gggctactgc tcgtctttat cttttttctt 180
ctttttgttg gaatttgacc acataggtct tgtaactatg acaattatct ttcttcgatg 240
catatgcttt ccttcgatga ttaattttga actgtttgtc ttgtgtgtat ataatgtata 300
ttgcctttgt ctttgcaacg ctnigtactt gtggttgat gaatagggtg tcgtgatgta 360
gactatttga taacgtagga aggaagacct tgttgatgaa gaggtangac catgatggtc 420
tt 422

<210> 19727
<211> 448
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19727

agttcccaat gtgcatgcc tgtaaatgag atcatataaa aactcatggt ttggaatttc 60
tgattataaa aacacattca tgtgaattaa aagcaaagga gaaataatgc tccccacaga 120
cattcatgca tgaataaccc attataagca tgattaaata aactaacctt cccaggcttt 180
attgtgctca cgtcttcaag agaacatata acacactgcc acgaaaagtt ataagtttta 240
gttacaaaag gtttgcgtaa aaacacataa atntgatctg cttgggttcat catggcctga 300
ttactcagcc tgtaataaat taaatgtaca aaacttgctt taaaaatact aattgatagg 360
tntttgtttg ttaacaatta agttagataa agcacataga gtaaaataat caacatacct 420
gaactgggaa atccatttgg ggtctccg 448

<210> 19728
<211> 422
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19728

atcttgaatg ntatcccatt gccatcattg tggatagttg caggagtcga atctggctag 60
caaaaggaca tacaaaatct caagacatga aaataagcag gactaagtaa gaacagtgtg 120

tccacttatt ttaaacgcgc ttcactatag ctgtcactag ataataacct actaaaactc 360
 ataattntac cgacatctct cctactgata atattagttt tttntatata ttaaaaatac 420
 aag 423

<210> 19731
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19731

tggagttggt gcttttccct ttgggcctca tataacttgt ttctgcaga cccctttgct 60
 tccagcagac ccttagtgct attcgtaaca tcttgcttgg ctaacttcgc atacgtggctc 120
 cctttgtttg tcacttcgac atcgttttct tttctagttt ggtgactttg ctctcatttc 180
 gtgtgtttct ggtacaccac ttgttcatct tgatataaat ctttaattatc agttttacatg 240
 tttgncatca tatatatata tatatatata tatatatata tatatatata tattttattg 300
 ggctcttggt tcttatgttc taaatattag ccgcgtgtca gtgtccttgt ccatgtagtg 360
 gtccatgtcc gtacttcata gctgaaaacc aattacctga 400

<210> 19732
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19732

agcttgattg gacaccacac tttcatactc tcagtatctc ttctaacaaa atctttcttc 60
 ctagacctat actaaccact cctctcacia ccaattaaca caaatgaagt ccttcctcta 120
 ataccagtgt ttgtgtctag cctcataatc agcaccacaa atccattttc atgagcaact 180
 gatcgaaccc actgcaaaac attatctcgg atagcaaaca cctacaattc aaccacaaat 240
 tttagtcttc aaagggacat tcatcttata aatttaataa caataatgaa gattattacc 300
 tgagaagtat tgaacgcac cgaacaatca acatgttgtt cattcacacc acattcttgt 360
 tcattntcat catccatata aacttcttcg gacattatac tgtcatacat ccattgatc 419

<210> 19733

<211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19733

tatgaaatat tngtataaag atatggtcta aacactttat tgtctaaagt ggtggaattc 60
 tcctttaatt tatgtttcat accacatgag tatgtttgca aataggaatg ttcaatatca 120
 attaaagagc tctaaccaag aacatgggaa aatcaatcat tataatcacc acacatccac 180
 cattacaagc atgtaagtct tcctttgctc cgaacacaat tcatatgaag aactgcacac 240
 aacatctatg ttgattcaat caaattaatt aacctacaca atagatgtta ctttggtaat 300
 atgctatgtc aattaatcca accaaaaata ctagacaatt tagttaaatt taaatttaca 360
 catattttac atatatatac aaaatcccat aatggcatat ctatatcant cctagaaatc 420
 ac 422

<210> 19734
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19734

agcttccttt atctgtttta ctttngaaat nntaaccata gattgctaaa gtagaattag 60
 gcataagtgg caactttgct tttaacaaaa gaagtaaadc tctagctagt aagcatagat 120
 aatgggtgcta attatacaaa tcatagagta atccaaatta atcatgctta aagtaaatat 180
 acacaatgta aatctacatt gtctaattctt gcaacgtgta attttacacc gtgtagaaat 240
 caggttctaa tgaaattcta atttctacta aatttatcac atgaaatagc atgcatataa 300
 tcggaatttt aattgggttac ttgaattaaa tcttccttat aattactttt aataccaatt 360
 atatntccac agatcaccca aactcaatac tttctgtaat 400

<210> 19735
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19735

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 gggatgggtt tatgcaaaga caacgggtgac ataactagcc tgataaatgc caaaggaaat 120
 cgtgggaagt atgggttatg ctataagccc actcaggcag atataaagag aagcatcgtg 180
 ggaaggaaga gcggtagtca aaactcgcg ttgagacaag aaggtgaagg aagcccaccc 240
 tgccacataa gtaggagctt tataagcgcg ggtctggggg acgaatgtca agtggtcgcg 300
 atatacgaag atggcgttct gaggacattg gacttgggtac gaccatgccc tcttgatttc 360
 caactgggaa attggcgagt ggaagaatgc ntccgcattt acgcgacatg cataatgtaa 420
 ctcttacgg 429

<210> 19736
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19736

agtcttattt tcttccccag ggggtagaag aaatatgtca tacgtttcct ctttggtttc 60
 agtatgctct gcagcaataa ttgccttgat ttgatcaact gtcacagctc ttgctgacta 120
 aaatggtaga aacaatcaac acaatgcac atcaaaaaga cacttgaaaa tataaagaat 180
 cttactatga tagcatagca tagggtcacc ttcaatatgt aagtgggatt ctggaatcca 240
 gagaatggat taaacttggt aataattctt agatgagctg ttgtgagatc tggctcaata 300
 aaagctctat acataggata cacctgcaaa aggaacaaaa acaatagtta aaaattatag 360
 caggtgcctt agtcttacag atgcaagtgt tcataagtcc tanaaaaatt ataacatga 419

<210> 19737
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19737

ttagttattn taatcttaag ttgaccttga catcatctat tgtccaatat tgctaaagnt 60
 ggactaggtg atcaatgtat aacaagagag agagaagaaa gagagtggag gagagaatat 120
 tcaaaaataa aaaataattt aattttttaa atatattaat tgtgtgaatg gattgaatat 180

ctatacataa aaactatata tggatgaatt tgaatagatt ttattaaatg aatcatggat 240
gaattgaatn ttttaaataa actttggtaa atctaaataa attaatagat tattttaatc 300
catttattca atttgattat taataatgaa ttaatttagt ctaattntca acccaactca 360
attataccgt cgagttaggt taangttacc ttatnttatt nttgtaatca actcaattca 420
ac 422

<210> 19738
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19738

catgttgnc tggttttaaa tttcgagcgt ctgatatat gacgggactt aatcggactt 60
ccgagtaaaa tgttattgtc gctcgacttt gctacgagct tcggttttaa aattcgagcg 120
tcacgatata ttacgggact caatcagact tccgagtga atgttattgt cgttcgaatt 180
tgctacgagc ttcggtttta aaattcgagc gtctcgatat attacgggac tcaataggac 240
ttcccagtga aatggatttg tcgttcgact ttgctacgag cttcggttnt aaaattcgag 300
cgtcacgata tattacggga ctcaatcaga cttccgagt aaatgttatt ggccgctcgaa 360
tttgctacga gcttcggttt aaaattcgag cgtctcgata ta 402

<210> 19739
<211> 365
<212> DNA
<213> Glycine max

<400> 19739

atatatcgac gtgctcgaaa ttcaaaccga agctcctaag caattcgaac gaccataact 60
ttgactctga agtccgattg agtccccgca tatatcgaga cgctcgaaat ttaataccga 120
agctcggcga aaattaaaag acaataactt tgtactcgga tgtccgattg agtgccgtaa 180
catatcgaga cgctcgaaat ttaaaactga agctcgagaa aattcgaacg acaataactt 240
ttcactcgga agtcagaatg agtcccgtaa tatatcgaac gtcctcaaatt taaaaccgat 300
gctcgcggaa attcttacac aataactttt cactcgaagt gcgattgagt cccgcaatat 360

atcga

365

<210> 19740
<211> 286
<212> DNA
<213> Glycine max

<400> 19740

ttagcttata tatatgtaat agtttttgtc tttttttttt tacctttttt ggtagcata 60
aacataatct tgttgaatca gaactacttt cggtcggcat cttggaatct tcgttcttgc 120
tatattagct gctttttttt tttttttgcc tctcgtccaa gtatttatat tcattattta 180
aatcgacact tatgatcgag gcatatttcg ttaactttta tacaaggat gactgatatg 240
acaagttact aattgtacat ttctttcgtc ccgaatcttg tatctg 286

<210> 19741
<211> 386
<212> DNA
<213> Glycine max

<400> 19741

cgacactatg aaactcagct ttgacgatat gttagaactg cttttgttgt tacactccaa 60
ctgggtggaga agcatgccag aaataccgaa gtatttatat gcgtcctcag ggtctatata 120
tcagtttgaa ggagaagtaa gcttttttca tggcactgct ctttatgttt tttctcttgg 180
ctttgagaaa atactaagta tttgaattct tcagaggcaa gatccttgaa gtactgaaaa 240
actggccaga aaagagtatt caagttattg ttgcgactga tggtgagcgt atattaggac 300
ttggagatct tggttgcaa gaaaaatata gtgttagtct cctatatctg cattacacac 360
agagacatta gagtaacata attttt 386

<210> 19742
<211> 278
<212> DNA
<213> Glycine max

<400> 19742

ggggattatc cacttccac aaaagtattg ccaccacttt ccacaacttc gatataatc 60
agcgtacgat atattacggg accatcagac ttcagtgaat gcattgtcgt caaatgctac 120

agcttcgttt aaatcagcgg cgaatatacc ggaccataga ttccaggaag gattgccgtt 180
cacttgctca cctcgggttaa attagcgacg aatttacgac tcataactcc aaggatgtat 240
gccccaatac acgacctggc taaatgacgc caatatac 278

<210> 19743
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19743

cttgttctat ttaaattcct aggatcatga gcaactatgt gtgtcctact atgacttgag 60
aaacaaagat gatcaaataa caagcaaaga tttaaaaggt actagggttg ctcctagtag 120
cgcttcttta acgtcttgag ctggacgcgt gatgacttgt cggccacgga cctagtactt 180
tgcttacctt tggctttgga cttggtcgcc tgctggtcga ccacgggtcg taggcaacgc 240
tccagccttt gtagatgagc tgagggactc tggaggtggc ggcgatgcgt ctattgcccc 300
ctgccggcca tccccaagct actgtggtgt ctgccttgcc gcctgcctgn gggcgagta 360
cttcttgatg aaagctcggg tagtaggggg cctgatgacc ttgatgtggg cgacgggcac 420
tccgtagaac tgacagaggc ccgtaatca 449

<210> 19744
<211> 433
<212> DNA
<213> Glycine max

<400> 19744

agctttcaat gaactcttgc tccaaaaaat tgttattcga tccaattcaa aaatcttaca 60
aaatgggtcca tcaataagca tgtgaaatct aacaaaataa caagttaagg agaacaaact 120
acaacttaat aacttacatc ataaaaggca taaacaaagt cctaaataag agaaaagatt 180
agataatttt ctaaattcac atgtctcagt taagtatttt tggcaattat taactcccc 240
aactttagaa atttttttgt cctcaagaaa aagtaaacac attgttaaata gaaaactact 300
agtgctaaga ctaaaatatt gacatgagtt gagatcaatt ccatacctaac atatccaaca 360
cttgatttgt ccagaaccaa ggtcataaaa aaggaatggg acaaggactt aattattctc 420
agtgatgtca ttg 433

<210> 19745
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19745

aaggccaat gccttaacag ttttttttac tcttgggggt taaaatgaac ctttcaaaag 60
 tttaaaatca actttacgag taactttatc gcttttttaa gaactatata ggtctgagtt 120
 cctcttcgca cttgaggata cgtaggagca agggatcatgc tcttgtcgac cccaaaagat 180
 aaaaaacaca aaaaaggga aaataaataa atattgaagt catgattttg cacacttgat 240
 taaaggatgc cgtcccttgt gacggacgaa taggggtgcta atacctttcc ggcattgtaa 300
 caactcttga acctttattc ttaaaattcg cagaccctt tntagttttt ctaacgttnt 360
 cctcgaataa acattgggtg cgactccgc atgtcttct tctttggatg acgcacc 417

<210> 19746
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 19746

agcttagcta ttggtctgag agatcccatg accttctaaa cccacaata gaatccata 60
 ctttcaagga taaatatcac ttctgttttt tcgttttggg gcattatggt ttaaaagtct 120
 cattgaggct atatgtttta ttgatgttaa agaacacatt ttacattgat atccatttga 180
 aaggtaataa aatgcattgc ctatctccg gagaaccaac ccagtcagca tctgagtatc 240
 caactacctg agcatgtccc ctatcttcat aaataaggac ttagccagga gccttcttaa 300
 tgtatttcac ccagtgatct tggcaggagg agtttatgaa ctgacttacc aactcactg 360
 caaaggcaat atttgggcaa ctgatcatga cataattcaa ctttccaact aa 412

<210> 19747
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19747

tcaagcttag aggcagacca ttggaattga ctctgccctg tccatcttta tcttcgncat 60
 tttcatccgt tgnccaggcct aagacgattc ttacagtact actggatgca tgaattggcc 120
 gtgcatggaa atactatcca caatgatata ttccaacttg gtagtcttac ttgtactaaa 180
 ttctaategc atatatTTTT tgtacaatac aaaccttcca ctgaccgata tgccctgcgtg 240
 cgttcatgac tgttcttaat tgatcataac aatacgtgta ctcgaaacaa attgattgat 300
 tataacaccg attttgtcca tctgatttta tatttctatc aagtgttaaa a 351

<210> 19748
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19748

agcttgtgag ctnatgntaa aaaaaagatg ttgaagaagt tgacttgact atcaagtaca 60
 agaaaagctt ttggtctagt gataagcact tgattccaag tgtttcacca ataaatgaca 120
 agagtttcat aagtccaatt tcatgatcaa gtaaaaggct tacagttttc ccatttgtgg 180
 taatgatggg gacatttttg ccattgattt gtgtcacctc tccatcaatc catgcatcct 240
 caggatcctc aacccaaaacc tgtgatccaa cgatgatggt cacagggtgtt ccttgaacca 300
 atcacaacaa ggcaagaaaa agtgttactg ttaacacatg atctgacagc aaaaatgtgg 360
 gaaggatcca acaacaacca acaaacagcg cagagaagac tcct 404

<210> 19749
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19749

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 ttagaataaa acatggagca tggaaactgc attgttgctt aaacaagtag caaaaatata 120
 acacctcatc ttgagaagt gcttactgtt ttctcttctc cagtgcagag aaacttcccc 180
 tctgcaaaat cacaagctgc aattgggtatt gctagctgct tctgcaattt ctttacaaca 240
 aacacttctg actcttcaca tatgggttacc actgtaccat tcctacctag ccgaccagtt 300

cggccagctc ggtgtgcata gtgaattgaa tctgtcggta agtctagatt aaccacaaga 360
 tcacattctg ccacatccaa accccttgct gataattcat tcgtaaccag aactctcacc 420
 tcaccattct tgaatgtctt cagagttggt gacct 455

<210> 19750
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19750

agcttcactg tttattatag tatgtacaaa agagttgcag tattcaactg cactcttagt 60
 taaagggagt tagttaaaag atagtttggga agcttgtagt tcttcttagt tagttcaaag 120
 ttagctacaa acagtttcag taactgtttt atatatatat atatatatct ttgtaacaca 180
 atattcactg gccaaatata tttttccttt cttgattctt gagttttcct ctctctcaaa 240
 ctctctctaa tcttctttta tgatactggt tagtttctaa taatgtttat taatgataaa 300
 aaagtgtctc atgcacccca tcagatttgt cctttggtct tcttccanaa tgcttcaatt 360
 ccagcccana atagctattg ggccaatggg cccaagtatg gacacttcag cacctttntc 420
 tttacat 427

<210> 19751
 <211> 475
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19751

ttacgcgacc ttagaatcct aagcnttcta atgtcttggt agagtctggg ccttcttcag 60
 tttgtcatct ttagtgtctt catagnttat gctcaataag ttccaaacct ctttagcagt 120
 tctcagtctg taaatcttgc tgtaatcatt ctttgatagg gcacatgtta gagtatatct 180
 tgcttttggt ttaagttcca taataaccag atcatcatct gtccattcat cttcagggtt 240
 atgaataggg atatccctat tggtaatcat gagctagatt tcatactggg tggacttgat 300
 gtacatctcc attatgtcct tctagtaagg gtagtnttct tcagcgaagc ctggtggcct 360
 agtgagagat gctcccttag tgataaactt gtgttggtta tctaccattt ggatcttttc 420

ctctanacac tattaaatgc tcaacccttg gagactgagc tttgatacca actgt 475

<210> 19752
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19752

gcgcacgcaa gtcttgagta tattncttct gtgacattct agaacagtca ccaaacttag 60
tactagacag tcattcttcac cttatatcag aaccagcaac tgctaggttag gacccactgt 120
ggtcgaactc cactgcaaga cacacagaat gaagatgaag gccttttgaa atatgtacaa 180
cttcttaacc agtatatata aatataggtt atattgccat caagtgaaaa tgaataccgg 240
agctcggttg tgtttccgaa tcatatggag caaaattcct gaagttcttc agtttacgta 300
gatcccatag cttaacacca tcatgagcag cagtctgtca aatctaagag tacaataaga 360
atactgtata aacaatcatc atactttact agttacattg tctcacatac cgcaaggaag 420
tatccattct ca 432

<210> 19753
<211> 401
<212> DNA
<213> Glycine max

<400> 19753

agcttgcac atagtctatc gacaataaca ttctactcgg aagtccgatt gagtcccgt 60
atatatcgag aactcgaag tttaaaaccg aagctcgctg cagacgctaa cgacaataac 120
atttctactc gaagtccgat tgagtccgt aatatatcga gacgctcgaa atttaaaacc 180
gaagctcgta gcaaattcta acgacaataa catttctctc ggaagtccga ttgagtcccg 240
taatatatcg agacgctcag aatttaaaac cgaagctcgc agcaaagct aacgacaata 300
acatttctact cggaagttcg atggagtccc gtaatatatc gagacgctcg aaattaaaac 360
cgaagctcgc agcacatgct aacgacaata acatttctact c 401

<210> 19754
<211> 415
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19754

gagcgtctcg atatgttacg ggacttcttc ggacttccga gtgaattggt attgtcattc 60
gaatttgcta cgagcttcgg ttttaaattt cgagcgtctc gatttattag gactcaatcg 120
gacttccgag tgaaaagtta ttggcgntcg aatttgctac gatcttcggg ttgaaatttc 180
gagcgtctca ttatgttacg ggacttaatc ggacttccga gtgaaaagtt attgtcgttt 240
gaaattgcta cgatcttcga ttttaaattt cgagggtctc aatatgttac gggactcaat 300
cggacttccg agtgacaagt tattgtcggt cgaatttgct accagcttct attntaaatt 360
tcgagcgtct cgatatatta cgcgactcac tcggaatttc gagtgaaaag ttatt 415

<210> 19755

<211> 376

<212> DNA

<213> Glycine max

<400> 19755

agcttgtagg ttagcttgca ggaatccttc gaattggcca atttcacttg gtgctacaaa 60
gcagtgcac tagtcgcaga ggtaaggag gactaatatt tcaaaacatc atccctcacc 120
cactcatagc aagcaatagc aggggggacg atagtgaccc aacacactat ggctacgcc 180
cactcggggg gaagccttaa cgtccctgcc accacttctc cttgcttttc tagaaataga 240
agggggaaga atcgtgggta ctggaacggg ttccctgttt agagaagaag tcaaaggctg 300
cgccaacacg gtgtgagacc gtcaacctct ccaaggaaga ggactcgcta tcagaaaccc 360
tttggcgagt ctctc 376

<210> 19756

<211> 242

<212> DNA

<213> Glycine max

<400> 19756

tatttaattc cataagccca actccttctc aaggaaataa tccaaccaga atttcaataa 60
cctaaaatgt tcacaaccac aaaatattcc agactggaac acaagaaaaa taagccaagt 120
tcttatcata attatggaaa ttctaagaaa ctaaaaagcc aaatacacgg cttataaaag 180

ataaattagc cgaatctaaa atcttagaag acgaaggagg ggggggaaga tcaaaactct 240
ga 242

<210> 19757
<211> 409
<212> DNA
<213> Glycine max

<400> 19757

agcttgttta tcccttatga gttgaatcgc acatagaatc gtttttttgg taggctcgga 60
gtaaactctt tacaatcata gttttgttac tgtgccgacg attctactcc acaccataga 120
caacaccgta atagtatgtc acgacagtgg ctgggagagg cggcatggcg aagtcctgta 180
acgaggggttt cactagttag gttggtcgaa aatggcggac atgcaacaga aaaggatgca 240
tgaagaagag aaagaatata tttatatcat tgtggcaaaa ttagttctat gatgtggcgt 300
gccagcgacg atggatgacg gtggcactga ttatgtgaag cttcatgcta agcatagtgt 360
cgcaatcact attggaacga gggcgctcgtg tgagataaaa atgattatg 409

<210> 19758
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19758

tcttcttcca tggcttattc cctagtggat ggcgcctctt ctcacctctt ctcttttgtc 60
ttccgctgca tctccatggt ggaaaaccac cattaaagga cctcattgaa actcaaagat 120
ccagcctcca tagaagcccc acaagcaagc ttccatcaag tggtaatcag agcacaagag 180
cttcaagtag gtgctcctta nacctccatt aattnttttt gctttacctt ctcttccatt 240
nttgtttctt cattnttctg catgtatctc ctcacatgtc ttgtgataaa tgttgttaac 300
atgattcttt agagtttcca ctgattaaac atgctataga agctagattt gattttctat 360
ggntcaaatt tcttgttctt tttcttgaac catgaattgt gttgac 406

<210> 19759
<211> 403
<212> DNA

<213> Glycine max

<400> 19759

agtcttcttt tctattttgc tataaatagg ggaagaagtg aagaagaaaa gggttcagcc 60
ccttatgcac ttctctctct ctgaatttg ctgaggaaaa ttatttccgt gaagaaaatc 120
caagccgagg cgcttccgta acgtttccgt gagtaattac gcgaagattc tcgaccgttc 180
ttcaagatcc atcgttcggt cttcgttttc ttcagtctac aacgggtaag tacctcaaac 240
caagcttttc aattcgttct atgtaccctg ggtggtccac attatgttgc atgtattttt 300
attcttgtgc tcgtcaactt tttatacccc ttgtgacgtg ctttaagccat ttatttaagt 360
catttctcgc ttaatctacc aataaaataa atttccatcg atc 403

<210> 19760

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19760

tctcgggtca tgctgggaac gcctctattc taacaccctg tcagcctaag gcaccacccc 60
agagggaagc tccccaaagt ccaactccga acacggctcg accggccggt aattccaaca 120
cgacaaggaa cttccctcca aggccattgc cggaattcac cccgctcccg atgacgtacg 180
aagatcttct accatccctc atcgccaatc atttggccgt ggtaactccc ggaaggggtc 240
tcgaaccccc ttcccgaag tggatgacc ctaatgcaac tngcaagtac catgggggtg 300
ccccggggca ttccgtcgaa aaatgcttgg cccttaaata caaggtccaa catctaattg 360
atgccggatg gctgactnct caagaggatc ggcccaatgt gaggaccaac ccgctcgcca 420
atcatggagg gggagcagtt aatg 444

<210> 19761

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19761

ttagcttaag taatgccagg gatacaccac ttccctttta gggtagttag tttgggatat 60

gattcataac cctgaaaagt tgtgggtcca aatcattcag agcaaattatt gcagtgccat 120
 tcgcttttttg aacatggaga aaccgaaagg atttcccacg tagctttcca tgattaaagc 180
 taaggaattg ctcacagagg gtttttagctt tcacattggt tcgaaggaaa gttccttttg 240
 gtttgaagct tggactaatg acgagccact ntgcaacaaa gtcacctatg tgaatatcca 300
 ggatataaac ctaagattaa tgaggtttat agggacaata gctggagggtt tgatgagctt 360
 gcaactgtta tcccagacta aaccaaaca caaatttggt ctttc 405

<210> 19762
 <211> 504
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19762

agcacggatg nngttgaaac ccnttggata gangcgattg ttgatcaccn ctagacatnc 60
 cngagacgcc atacaatact cacactnata tcctaaggat ttacctagga tgttgtgac 120
 tgatttccgt gaagagcctt gagctccttt catgtgcgaa ctctactgc cttaatggaa 180
 ccatgaatca cattcctaag aatttggagc ttggaattgc gctgagaata aaagcggagg 240
 gttnttcgat tcaattggat aacatcagga tgatggctat gcctcatgag gtaatctggg 300
 ccataacttga tggacagcgt atatagggtt aatgatgcac atgctgactg agacgatgga 360
 tcataaacgc tatagcagta agcaagctaa atgagatcat cgataattac atgcaatcca 420
 ggtgagtga tacgatcttt aatggcacat gagcgatgaa accgttgggc tactcttatg 480
 ggtaaacata ctcttactct ttct 504

<210> 19763
 <211> 345
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19763

ttagctntnt tttcttatgt tctctaatacc acaagcattt gaggtcctg ctacatcggt 60
 catttgttct tgcaacatta tgacagggtta tcgaaggtag acacattcaa gaagcaagac 120
 atttgagata taggtatctt tttcctcctt atactctagt aaaagtatct cttcatcaaa 180

gttgtacctt gctatctcat acacaagtct tattttttga tgatgcaaag ccattctcag 240
 ttgcctactt ctctggcttt catgggtntg gtgtcaaaaa tttatttggt gtaatagtgc 300
 atacaatttt aanggttttag cacttaaaat ttcttcctca tatga 345

<210> 19764
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19764

gacctataaa actcagcttc agatctatcc ataattggag attgcatctt cctcaataag 60
 gtattaacaa tttgtcttct attctagtga cactttggtt agaagaaaga ggggagaaaa 120
 cttttataaa cttcaaactt ttcttgcatt aaatatctcc taaaactaaa cattttattat 180
 tttgaaaaac taaaaacatg tttaattaaa aaataaaata caagataagc tttaaatntt 240
 tttttttttt ttaactctgt tcacttttat tctatctccc ctagtctaaa actacttttc 300
 ccatgtaacg ggtttctatt tgcttccagg ataggtttta tttaatgcat tcaattgagc 360
 ccgtattcct tcatgaaaat gtctttcaaa agaagaaaat tatataagga atanaacgaa 420
 atctatagta g 431

<210> 19765
 <211> 476
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19765

acacatgcgt tgagcccttg annccntgaa ntncaccaa atcccgggac cctcagagac 60
 gacctgtacg cgcgccagca ccatttatga ncatttttaa ccccagcca cggggagatg 120
 taggtgagtt gtataaacta acttccaccg caaccagcgt atggatcatc tacgacaact 180
 accggaccag aatagcctct gcggggcaac tcaaaactat gtgaatcatg ccctaacaaa 240
 caccgataca gcctggatga gccggctcgt cataaatacc ttatcaaata caccggggca 300
 tctgcgcctt tcacgaacgg gctaggtgaa gacagataag cgtggagcgt ctatcacacc 360
 ctgtatctaa taaaacacca ctttaciaat gtggaaactc ttcagggacg gagacatgtg 420

cccgctagca cccaactata tcgaaactat cctgacacaa gcgggccacc tacgcc 476

<210> 19766
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 19766

gcgccttagcg gcaccaactc ttcaaaaatt tcactaagtg ttttgagctt atctagttaa 60
 gctcgcttag ctcagcggac gctgcaacca attgtgcttg gctcaggaat gctcggctta 120
 gtgcataact atcaccaaaa aaatgggtta agttacctgg gcttagcgat tcagcctcgc 180
 ttagccaaaa gtagttcagc atgaggatga gtgttcaccc tcaaaggatg aactctctta 240
 gcgcggtaag catgcttagc gagttcttta gataacactt acatacaatg agtattgatg 300
 aactcgctta gtgcagcatg ctcgcttagc gagctcatcg cgttttccag acaacgcaga 360
 atatacagct cgttttctag cacttttcaa gcctctaaaa ggcatatcac acatgcaatg 420
 tgtgcgccat actcaattca gtat 444

<210> 19767
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 19767

agctcgcttg atatgatgta catttttata accaaggaag atattcttgg ccttccatgc 60
 ttccaggcga ttttttgtct aaatacttaa ctttatatat aatagaaaga acaaacgata 120
 taataagaat aataagatga atgaatataa gaattaaaat acgagatgca tatatttata 180
 cattgagatg ccgacagata cgacgaagag acatactgta atttctctct atgcctcaat 240
 gacaaatata tatcacttag tagtggtttt ctgccacata cctgtgtgtg gggcaagcta 300
 accatccttt ctacattcaa caaaacattc 330

<210> 19768
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 19768

tatgagacca aaacatgaca aagaacgttt ccaacaatct atttctcatg cttttctagt 60
aaatcttgtc caaaacacaa acgaattata cataaattct tctcacaaca tggggagtca 120
aatccctcaa acaatttcac ataatcatat tataatcaaa ggaatcaaaa tgggttcaaaa 180
acacaaaaca ccaagagcac tcaattttat caaccaattc gcattaaggc atcaattggt 240
tcgtcaaaca taacaatctc atgattacaa tcataaaggc agaattacaa tacaataaat 300
atcccaaaat aaatcccaat ttgatcctct aaggatcccc acacatgttc tttctaattcc 360
caattgtgat aaactcatcc cttacctcta agaaggctca catgtgtagt ttgacaatga 420
tagtatcatc tctagtgggt ccctaagatt cctcaag 457

<210> 19769
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19769

agcttcattg tgatcttttt ctattgtaga aattgatcac tcccactaat caagtcattc 60
tcaagaaatt ntgcgtttct tgattcgaca accctagtgc tatgtgatgg acaatagaat 120
ctataccctt tggactttnt agcatatcca atgaaatacc cactaatagt ccttgggtct 180
agtttcttct cttgtggatt ataaactctc acttcagatg ggaatcccca agcgcatata 240
tgtcgcanac tcggtttcca acctttgaat aactagaaag gtgtctttta gacagccttg 300
gttggaaacc ggtttaatat atatacaacc gtctttaatg cttcaatcca caagaattga 360
ggaagttntt tattacttct catactttnt atcatgtcca ttaaagttcg gtttcttctt 420
t 421

<210> 19770
<211> 443
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19770

agcaactcan aatctaggta tctaaaaccc ctcaatttag cggattttca aggtttttaga 60
agagaaaatg aggatggggg aaacttggag caaactctca tctcaaacaa gtctatatca 120

tcaatctaaa ctcgctcaaa ccggttttac gacgaaaact ctaccgaatc aaaatttgac 180
tcttcaacac ccaattttac cctagaaatg gctcttggtt tcaatttggt cactcatatt 240
cctcatttgc acagtctaag ctttctcata agtcctaaat gacatttcaa actaggatta 300
actcccttta acctccaaat accactaaat ccagatttgg ccttctaact ctgagagcct 360
gactctnttt ccaactcataa caccacattc tcaatttcta accctagggt aactctaccc 420
ttcatctcta gtagttttcc ata 443

<210> 19771
<211> 425
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19771

agcttatatt ttgttaattt taattaacgg aaaagtatta tatataccac aatctttaaa 60
tcttcaaaat tccaatatct ataagtaaag cccacatttt ctggaaatca cacctaagat 120
atcttttttt tgtcatgagt tagacacttt tgggtgtttc caattcattg aatcatatat 180
taatcatact cttaatgtgt gaatattggt agttcaagaa aattttacgc tcgaagaana 240
tgaaatacaa aattgttttag agtttcaaga aaattccatt atcgtgataa aaaaaagcc 300
taaaatttaa cttttatgtg acatatataa acatactaaa aaaacaacta aatacaatnt 360
tgttntgttg ttgaatacat caagatacaa acaaactagc attcatccat agactgaaat 420
gcac 425

<210> 19772
<211> 443
<212> DNA
<213> Glycine max
<400> 19772

gcttctaatt tctattgtta gaccaaatac caattattaa catttaagcc attaattagt 60
tgaccattat ttgactagag aattttctct aaattatcct tattctggct agactttacc 120
ttaaaaattt atgagcttaa ccattcatag atattctatt gtaacatctc attttctagt 180
ttaaaaacac tatccaatca cacaacaaac aaaaatattg tctaccacat agacatgaaa 240
aattgggatg ttacagagtt tctctctttt ttttttctt taaccaccaa gttaatccta 300

taatccccca tttctctctt taaccaccaa gcaaacctta taactcctaa tttgagggat 360
 caatttttct ttgtatttat ttttaaggatt aactttctat ctattacaac ttgagagact 420
 aaattgagga ataatgttca acc 443

<210> 19773
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 19773
 tgagaaccat aggccggtgt ctatgggtcc tttgatatta tgaacaatcc actttgcatc 60
 cttgagagga gtactcatta cagtctccat gtatcaactg atgactccag cagcatataa 120
 aacgtctagt cttgtgcaca tcatatcgta aactaccac caaactcttg aactttgtat 180
 catccacctt tctgtcttga tcgaactttg ataacttatt tctgcaactca atcggtgatc 240
 caattggctt gcaagcatcc atcttgaatc tattgagcat ctggtgtgtg acatagccct 300
 ttcacactta cgagatggca aagtggctct gtgagtgggc gatgacgatg gtgagagctc 360
 ttgctgaaca tgttgaggtg tcttatcttc ttcaagt 397

<210> 19774
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19774

agcttcttgt tgatcaagtt gatccgcaag ctagttacag atgaagttga tctgtataaa 60
 tcaacttcat ccgtaaccag cttatggatc atctacgtca actacggatc aaatatagct 120
 tctgcggttc aacaaaaacc tatgtgaatc atgccatagc atacgaggat caagctgaat 180
 gagccgggtg cacaaaaata ttttaaaaat acacgnggt atttttgtct tttcatgtag 240
 ggtgttaggt gcaccagcaa taatgctggg tgctcctagc aacacccttc atcaaaatat 300
 aacatccact ttacaaagtt tgtaagcctt ttcagggtta cggttccctt gttaccggtt 360
 tacaacacca aattcatatc aatatgctaa tcttgtacca aaatgtttgt ctctacttat 420
 t 421

<210> 19775
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19775

tctagcgtac cgcgtatngg tgctcataan atcccaaatt caaatccctc ttattactag 60
 ctattttgaa ttcttttagtt cctgaatgta caaccttcaa attgttactc gttcccgtat 120
 ttgttttctg caaaaaagaa aattaatctg aaacaattca ggctgaattg ttatcgttat 180
 tattactcga accataagga ataacagcta aacaagtaat ttaaaatgta acttttaaat 240
 tatgtggtat ttttttaatt acaattttac ttcaatatct aattttgtta atctacttag 300
 gtcgttggtt aaatataaat atgaatttaa aggtgatcta ctgataatat aaagtacttg 360
 ctaatcacia attatgatac ctatcattnt caattntaac ttaattntat aaatattaat 420
 aaatgtataa taa 433

<210> 19776
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19776

agcttgctta ctataccttc taccgaacac ggccgtgctt ctgtctaggc cgggattcaa 60
 ggcggggttg agcaccggct ccgcttcctt aactgtactg gaggcgggtg cgggtggcttt 120
 atcctctatg gttttctgga gttttaacat gacctccgag atggaagcca ttttatcttt 180
 caaggccgat agatcggcct tcatctgttc ctgcacgcc tcttcattat ccatttttct 240
 agatcgagtg ttataggggt gccttggtgt tttcttagtt atgatgaaat tcctaaagaa 300
 ataaacaacg gtgagtatgc caccaaaaca tgagtatgca aatggatgat cggagcactt 360
 ggatccaccc caagattntt agataacgta atgagtccag aactttctca ttntataaaa 420

<210> 19777
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19777

ntgtacggcc ttaagcaggc ccccaaacaa tggtttgaat tactgcaatc tactatcttc 60
aagccctttg tgatgcaaac tgggcatcaa atgttgatca ctgaaggtga atttcaagtt 120
ttgccatata tttgggccct tatcatatat cttggtggac ctgcaagatc aagtgcaaag 180
gcaaaatata gtagtttggc ataaactact atagaattat cctggattga gaccatgttt 240
aatgagttgt aagtttctct caacacactc attgtattat gtgacaacca aagtgttggt 300
gctcttgccc actaaagtta gttattgaca actgttgaca cctaactcaa tagattggta 360
acacaaaaat tagtacccta agaataaaag aatattntaa tntgggtattt gttcaatgaa 420
agagtaaaat atag 434

<210> 19778
<211> 401
<212> DNA
<213> Glycine max

<400> 19778
agttttatat ttcaatttcg agcgtctcaa tagattacgg gactcaatca gacatccgag 60
caaaacatta ttgtcgtttg aattagctca gagcttcaga attcaatttc gatcgtctcg 120
atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt cgaatttgct 180
gagagcttca acattcaatt tcgagcgtct cgatgtttta tgggacttaa tcagacatcc 240
gagtaaaaag ttattgccgt ttgaatatgc tgagagcttc aacattcaat ttcgagcatc 300
tcgatataatt acgggactca atcagacatc cgagtaaaaa gttatcgctcg tttgaatttg 360
gtcagagctt caacattcaa tttggagcgt atacatatat t 401

<210> 19779
<211> 379
<212> DNA
<213> Glycine max

<400> 19779
tctggaagga gatcaacttg atgttctatg cctcttgatt gtggtagtcc atgaggaatc 60
tccataggaa agacatttct aaattcctgc aataaggggt gaacactagg agaaatagaa 120
atagtaaact cattagaatt atgagtagaa attttactgt ctttgcaata ctgtagattg 180

agtggttcat gagcaggtaa cattttcctc acttcactcg cctctgcaaa ataattaaat 240
 tttctctcat gtgtatcact cttttcctcg ggtgtatcac tctttttcat attccttttg 300
 ggtgcctcac tattatcttt ctcttggtct ctcttttctc tcattctgat ttggatcatca 360
 cacacttctc taggggata 379

<210> 19780
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19780

agtttgcatt atattgtgtt tggncatgaat ccttatgagc aagcaatata aattattgag 60
 aaaagcttgg cagcattcga taaggataac ttgatcccct actttggatt tggagatggg 120
 atctctttta acaaatttaa cttatggagt gcattatctt gaagttaaga tatggctaaa 180
 agaacttgca gaaagaatct gatttggaaa ttgacataa aaaatgtgat taagatacaa 240
 gttgcagacc acatgtcttg ccttgaaaac aaagcactaa agatgaacct ttgcacattt 300
 aggaaatact tgctaataag caattacttg gtataaaatg acatgcatt 349

<210> 19781
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19781

agcttgtatt cattacttgt tgagaacat aagccaaagt cgattgttcc tttgatatta 60
 tgaagaattc attttgcac cttgagatga gtagtcatta gagtctccat gtatcaactg 120
 atgagtcag tagcatatag aatgtctagt cttgtgcaca tcanatcgta aactaccac 180
 caaactcttg aactttgtag catccacctt tctgtctcg tcgaactttg ataacttaat 240
 tntgcactca atcgggtgtc caattggctt gcaagtatcc atcttgaatt tattgagcat 300
 ctggtgtgtg acatagccct ttcacactta ggagatggca aagtgtcttt gtgagtgggt 360
 gatgttgatg gngtgagctc ttgctgaaca tgttgaggtg tcttatcttc ttcaagt 417

<210> 19782
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19782

ntagtgcattg taatccactt atgaatagac cccatcttcc tcataatata aaactagaaa 60
 tcccacaaac ataatcgtat accttctcaa agttaacttt aagcacaagg catgatttct 120
 tccttctctt agcatcatca accacctcat ttgcaatggc tacactatct aacatatttt 180
 gctctcccat aaaggcaatt tgctttttcac caataattnt agggagaacc actcttagtc 240
 ttcttgctaa aaccttagac aaaattttat acaagcaccg gattaaggat ataggcctaa 300
 agttattaag gccttggtga tcaccccttt ttgagatgag aatgataaac gaaggattnt 360
 ctcttcttgg aattgctcca ttttcccaaa actcttgcaa catatttata aaatccacct 420
 tcaatgtagc ccaacatttc ttg 443

<210> 19783
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19783

catgttgctn tatatggcct ccgtgataga agccatttga tcttttaagg tccataggtc 60
 ggccttcgtc tgttcttgca ctccctcttc attatccatc tttctggatc gagtgttata 120
 aggggtgcctt tgcgcttttt tagttatggt gagttcccta aagaaacaaa caatgggtgag 180
 tataccacca aaacatgaat atgctaata atgatcagaa cacttggatc cacctcaagg 240
 ccttttttag ataacatgat gagtttcaga acttctcttt ttataaaaag gaacaaagct 300
 tttatctagc caagatcata caaaagtgtt acaacagAAC gtaacggttt ctaattatat 360
 gggccatcaa atctatcatg t 381

<210> 19784
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 19784

tcttatccaa ggctcatctt nggggtgaag ctcttcctt catggcttat tccttaatgg 60
atggcgctc ctctcacctc ttttcctttg tcttcgctg catctccatg gtggaaaatc 120
accataaaaag gaccccatg aagctcaaag atccagctc catagaagcc ccacaagcaa 180
gcttccatca ttttcttctg agggcaaggt ttatggtaaa ttgggatttt ggctcaaggc 240
ttgtaacacg gctggacatg atatatgtca gggtttggat cggttcaagg gtaaaagggg 300
atgtcccaca ttatttccat gacacaaatg caacaatgat gatntggaaa ttttatacac 360
ctatgtggac actcaagtgc canactttta tggctcatgtg atgctatggc tcaggattca 420

<210> 19785

<211> 264

<212> DNA

<213> Glycine max

<400> 19785

agcttctctt actctgacat caatggcgga aacagaggat agtggcgctt acctccatgg 60
tcgacgctcc ctcgacggtg gacggtggtt cgtggctcct cttcacggca acaagaagaa 120
caagaatcaa acgcaagctc ctcttcacgg caacaatggt tcgtggctga ggaagaagaa 180
gaagaaccaa acgaggaaga agaagaaggt agcgcgagaa agacaggtct aagaggtcac 240
caacacaata tgaaaatggc tctg 264

<210> 19786

<211> 392

<212> DNA

<213> Glycine max

<400> 19786

tctacttatg tggcttggcg ggcttccttc actttcttgt ctccaatgcg agctttgacc 60
actgttcttc cttcccgcca tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120
accatacttc ccacggtttc cttgagcatt tatcaggcta gttatgccgc cgttgtcttt 180
gcctaaacct atcccgggtt cataaccgtt ccccaacata actcgggcca tcattaccgc 240
tgcacggac agacaaggct tgccaaagag ggagtcacac gaggaaatgc tgaccacctc 300
aaaagactag aaagcagtct ctaacgattc ttctgctggc tccacataag gcatggagga 360

tggggagctt accaagatgt ctctctcgcc tg 392

<210> 19787
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19787

ccgaggttgg cattgacact tgaaanccca antcacacaa cccaggaccc taaagacctc 60
 aacattttcc ctttttgcca ggaaggggcc ttgggctctt gacgtaagcc cccccccagg 120
 ctggactggg tcgacccgac taaggaccag gattagttag cttaccctta catcggttga 180
 agacaacaat tcaccgaggt agaaacgcac acagctatca cggatgacta acatgaagaa 240
 acacgccatc taaagctcaa ataggaccac gcttctaaaa gactagaatt ctacccaaac 300
 ttaaagggtgc aaagacgacg gaaaaattct ggcagcaaaa taaaagcaca taaatacccc 360
 taagccacc 369

<210> 19788
 <211> 486
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19788

gcatgcttga tacctgcttg aacgnatctc ttgaaccctt tanacatgag tganaancct 60
 ctatggcgga tctatacatt cgctcttatg gcgagctttc ccatgcattt gcagcggaag 120
 gcgaaggatc ataggatcat gtagacacca ttcacagagg aataagccct ggaagatgga 180
 gctttcacc cagactgtg cctccggtta gaaactcgac gaggaagcct taatggacga 240
 aaagacagat ggaatggggg agtccgaatt tgatcgaata caccacggcg agaagtggaa 300
 cctcgaggtg cgctcataa gactcttatg catctaagt accacaagcg taccatgct 360
 tctatttata gactatgtac ctacttgaaa gcttctagaa atacttcctt gacaacttca 420
 ctgaaaaact ccttgaaagc tcagctagct accacaccac ttaaagctag ccacctctta 480
 taaccn 486

<210> 19789

<211> 387
 <212> DNA
 <213> Glycine max

<400> 19789

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agcttggttat tctattttat ccaaacaact tcacaaatct cacatgcttt caagaaacaa 60
cctcttcaat cttccatgtg taccttcaac cctttaaagc atgttaatgt aatgtcaaca 120
gaagattatt cttataaaaa acaaaatgtg aaacaagtag gcaattacat gaatgtacct 180
attagttggt gtgtttccaa tatgcataac ccaatcagtc catgcttcta caaacttctc 240
cttatgaggc atcaacaatg tatagtaaac atactaaaaa aataactaaa actatgaaca 300
tagtgtcata ccctaatttc gtccggagac cattatttgt tggcatgagg ccttcatttg 360
actacctcaa aatgtttaac acccatc 387
```

<210> 19790
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 19790

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tcaatgatag tttatttcca cttttaagca acatattagt accaagcaat gctatcaaac 60
acattaggac aaaatacaag agcaaaaata ttacacaatt agcattttga atgtacaaaa 120
taaagaaacc aataacaagt aacagggagc agtgcacttg agaagcaact acatttcacg 180
agcaacatgt gtatttggtt tatgcagttt taaacaaaat cccattttta aatcattcat 240
tagatagttg ttctcaaata ttattcatcg cctaacttct gaaataaata tcaataaaca 300
gggaacaaga actttgataa gtcacaaagc tgattgcac atactcaatt tgagagttct 360
caccaaattc agcggcaagc aagttattcc attggctcta gagtcgtcta gccttgatct 420
ttggcacgta ccatataat 439
```

<210> 19791
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19791

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agctttaaca acaacctgca aatttcaaga caaacaagag caatgcaaaa attcacaat 60
```

cgtaaacatt agaaagtttc aaatttgaag ttaacttaaa aatgtattta tagtatacca 120
aatacaccaa ataaaagtac agacatcgtg caaaacaaga acaagtattt tcaaactttc 180
aataagacac atatctttat tatgatatgc ttcaaagggtt cccaccgggc attcatgttc 240
aagaaatcaa tgtactcgaa gtaaaaccag taagattgaa agaacatgaa aatgaattag 300
tgaggattag ctnttagcaa atactacaaa gtacactaac cgtcttccct gaagtgcaaa 360
ggactntaat ttcttctcct ttaacctcca agacctcact atctatccaa gcgacatcag 420
ga 422

<210> 19792
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19792

tatcattcta tctctcanaa agtatgaaag gaagttcaag tgatgcaggt aattcatacc 60
cctagtagac aaatatttct atcttacctt catgtagaca tctgtatctg gatcaggtgt 120
aatatttgct tctttttctc ttctgaacac ctctgctagc aaatctgcag aatgtgaaat 180
aattttagtt aaaacttgat ttttcatatg aattttggct cgatttccaa attgcagctc 240
tgtgggctaa ccataaggag gcccaactcc ttggactcat gctgagaagg ccagggtttc 300
tctgactgtc atttctccaa tatgaagatc attttgactt acaaactcat tcatcccatg 360
accattataa gtcacctttc cagtgaactg atcaagaagc caaacctaata tagctacaaa 420
tccaataatg gaaaatatga gcacaaacat cat 453

<210> 19793
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19793

agcttcttac tagtttacgg ctttctggat gtagatgatg atatctatac agatggatct 60
tatatatcta tatatctata gatagatata tagatataga tatatagata tagatcatac 120
aatgaagtac cgcacgagtg ggtatatagg aatccaaatc tgccgaatca ctcatgttat 180

gatctttctac atcctaggtc ttcccgttcc ttcatctggc ttatgttctt catgtagcat 240
 tcagactgaa tgactctatg aaattacgtc gctacttcca catggtacgg gtaacgtatg 300
 agacatctct atttttcccg gngggaatcc ttagaattac cacagcttag cnttcaattc 360
 gcctctgacc atcatatgaa atgtgaataa cccgtcct 398

<210> 19794
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 19794
 tcaagcttgt gaatttagtt ttgatgcagc aagtgagggg aaacaattct taattgatgt 60
 ctcaaaaaaa aaagcagcgg attcagtagc acgggctgca ataagagctc ggtgtcatta 120
 tgttaataaaa aagtggctcg gcgggtatgtt aacgaatcgg tatactacag aaacacgact 180
 tcaaaagttc agggacttga gaatgcaaca aaagacgggg agactcaata gtttttcaaa 240
 aagagatgcc gctatattga agagacattt agctcatttg gaaacatatc ttggcggcat 300
 taaatatatg acgggggttac ctgatattga ataatcgctg atcaacaaga agaataacg 360
 gctcttcgag aatgtataac tttggaaatt ccaacaattc gttcaatcga taaaattgt 420
 gacccggacc tcgccgatat ttcaattcca gctaattgatg a 461

<210> 19795
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 19795
 agctttgctt aatgagaatc tgttcttcca acaggctgtg caatttggca tctgaagtct 60
 gggagctctg ggcagatggg tctgctaaag ctagaagtgg ggctgaagta gaagatgcaa 120
 ggatgccagc tattggtgca aaggaaaagg gaacatcagc tgctctgagc ttgctcttcc 180
 ttgcctctgg aaaattaact gtttggtcat tcgcattcca acagttcttt atgatatacg 240
 ctaagtcaat gaccggtctt aggttcttgt aggaggttaag agcatcagat ccaactcccc 300
 tcaatctaca caaggctgtg attaaagctg ggaagcctaa gcgagaagag ttagactgag 360
 ccatcatggt catttgtcca gagatcaaac cgccaatgtt catgtccatc cttgtgata 419

<210> 19796
 <211> 275
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19796

atgcacggaa aatgtaatta tganattgag atgcccgttt attcaccatt tcctagttaa 60
 ccttgcatta agtaccatgt tcaattatTT tgttttctaag tgaaacgggt ttatgatccc 120
 aacatgggtg gctcgtgggg cctaacacat gatacttaga atgtagtggtg aagtttcacg 180
 ctttccccctt tttgtgtttg tttttagtaa ggaaaacgca aggatgagca aacattgaaa 240
 caaatggtat ccaattttgc agatacaaaa gtttg 275

<210> 19797
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 19797

agctttgttg tggaaggaag atggaagaaa gaagagggtc gaggagattg gtaaagagga 60
 tatacatttg aactaaggct tgccacatgg tttgctgaca tggactcaga ttttccatgt 120
 tatggactaa gacttgccac atagacattt gactaagagg aaattagatt ttaaccgtag 180
 ggacttattt gcataacaaa tgtaaagatg aggattattt ttttcatttc aataggatag 240
 agactaatat acaaaatgac tacaaagata gggaccaaaa tgctatttta ctaaaaataa 300
 aagagaacaa tgtcatgaac tttctaaaac tcttgttctc tccttatctt gtaccaaagc 360
 tgctctctac tgactccaag ccacaaacac caagctcaca acaccatact cttaag 416

<210> 19798
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19798

tgctccagat ccataaggta atatgcatca agctaagac tggttaaaca gcgcttactg 60
 ggaggcaacc catctctttn tattttcatt aatcattgca tatagttagg attaacttat 120

ttgtgaattg ttgagtaagt catcagcatg tttagttttg aaaatggggt tgttaaagct 180
 ctttgaagct gtggatgaaa aataacttag aaaatttttc agtcatccac tcgctcagcg 240
 cgccctgtgc gctaagcgaa ttatcattca tgcgctgagc gagtctcaac tcgcgctaag 300
 tggatcaacc cctacctatt agctgatggg gtctcgctaa gcgagacctg tgcgctaagc 360
 ccaaaaacct ctctgaaatt gcatttaatg gaattagggg aagcaagtct tctttctaag 420
 cgcacaacat tgtctcgct 439

<210> 19799
 <211> 87
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19799

agcttcnata ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
 catatcttaa gaaggggggg gggggggg 87

<210> 19800
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19800

tctanccttt tccttccttt ctaccacaaa ggtggagtta ttccacatac ataaaaggcc 60
 accagcagct tccacagatg gaacaaaatc ccaatgacca gtggagtctc ccgaaatggc 120
 ctggcacaata cttttattaa agttctccct cttggtttct tggaggcaga caagatgcac 180
 tttgtgctta caatgagcct tctaacagca gccacttga ctccccctcc ctaacctcta 240
 gaattatagg agagaattat cataattgct gagatttaat tcccttttct gttgccatca 300
 aatcatcttt attctccata tccagcagta gcccttaac cttgctatct tcttccttat 360
 aagacaagcc catttccttc aagatgtcac attgcagctg tataggggtcc tcgtataaag 420
 aagcccatct ccttcacat tc 442

<210> 19801
 <211> 368

<212> DNA
<213> Glycine max

<400> 19801

agcttgtgtc taatcaagtc actccacat tttatctcta gcatgcattg tatgttggtc 60
tcgtcctttg tcacgggaag ccggaaggtc catatcacct tcttaattgg acacatggcg 120
cactgcgccc ccaaatacgc aagtaagaag agataatatt ccgggctctc ggggtctgtga 180
aatgcattca tatcatgcat cgcataaaca tctgttcatg gcatcataat gaacatatcg 240
atgctgcatt tgtctgttat catattacag cctcacattc tgcattgagtc atggcatcat 300
catgcatatg cgttcaacac actttttgat ctgcacaatt ggataccatt tggtttcatg 360
ttagctca 368

<210> 19802
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19802

tgaagagaga caacaatggt ggtgatttta atgaaaaatt ttcgtggagg aagaaagaga 60
gagttgtgct ggaagtttct ggagaaagag agagaagatt tggcttttaa aatggttttt 120
cttttctttt ttcattntct tttttaaaag caattccaca tgtcattttt ttaattggag 180
caaaaagggc ccacctttac ctttgacttg accaaatact cagccataaa agaagaaaaa 240
aatgggacct ttttgatgct tgaaatcttg cctcggtttg cgtgccgcct cttcggttcc 300
agttcttcgt gtttctctgc acccgtcgag gcccattttc aaggtaggca atatatatat 360
atatcaaaat gtcagaatg agaccctgag cat 393

<210> 19803
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19803

agctttactt tagatnttat taatgaccca ctaacctaga attaaaataa cttaatgcc 60
ttaacctagg gaattaaaaa aaacttaatg gctgagtgtg actgaaattg tggcaaccaa 120

aagtcacccc caacagccaa caagtcagcc accatTTggt ctcccaaaag gctgatgcct 180
atgttgccaa ttgggccctt attacaactt gaactaaacc taactaaagc ccttttagtt 240
gattaaccca aaacatattt ttggtcagcc aactttacaa ggattggggc attatttaga 300
cagactaaac actctaaaat tgaacaaaag tgggtgcatt tagtctctct ccatttgggc 360
catgatacaa ctcaaacct tggacttttc tccttgaaac 400

<210> 19804
<211> 399
<212> DNA
<213> Glycine max

<400> 19804
actcagcttg tgggtcagaa aaatcactgt tgtcatctct aaaagcggat attggaatgt 60
atgtatacat gatttgatga tgtcaagaag aatctaacag gctgcttcaa tgataagcat 120
ttgcttcaaa atattcaaga ttgcttcaac aaacaagtct tgttcaagat tactaaagac 180
caagccttgc cttaaacaaa gtgctttaag acatgcaggc tctggaatcg attaccagga 240
agggaatcga ttaccagaag acgggttgga aatagctgtt gaaaagggtt tgaattgaat 300
ttcaacatgt aatcgacacc atatgtctga atcgatacca caacgaactt tggaattcaa 360
ttcaaagtca tacccttcaa tataactgcg aatcgatac 399

<210> 19805
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19805
agcttgcttt cattttcagt catcaaagtc acctccccta tgccaacaat cttgcttgtg 60
acatgggttg ccatcttcac cataccaaaa tcctcttttt gatatggcaa aaaaaatcct 120
tcatgaggag taacaaggaa aaatactcca gagtcaatta tccatataca ataatcagat 180
gcaatattaa aataattttc attaccgata aaaaaaacat tctcatcatt taatgacaga 240
gaagtagtgg ttccaccttt attcttcttc tttgggtcaa ttcaattagc atggatagtt 300
ccagtcttct gatctttctt caagaatcta ccctcaaact tcttatgggc cgactttccg 360

caatagtagc aactaaagcc tttgnggtga gacttggatc tttcttgtga 410

<210> 19806
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19806

tgcttctaca actctattta taatatttgc tgcaatcttt atttcctttc ccaagagtga 60
ctatagtaag ttagaatgac aaatcatgct tcttaccata tccttaagag ttttgtttca 120
tctttcagct actacatcca tgctaggtga ccacgacatg gtgtactatg ggacgatttc 180
acattcctct aggtacctag caaaaggccc cggacgttgt tcacttgaac cgtcatatct 240
gccatagtat tcaccaccac ggtcatatct aacactcttg attcttttgt tgagttgatt 300
ttcaacttca actntaaatg ttttgaacac atccagagat tgttatattt catgtataag 360
aaacaagtat gcatatctgg agtaattgtc tatgaatgat ataaaatatt gttgaccatt 420
ccatg 425

<210> 19807
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19807

agctcggacc cgggatcctc tgagtcacct gccgcatttt tcttacttat aatcggcctc 60
attgcttagg ttcctcacga agctcgcaaa aaagacgaag ccattttata ggctacttag 120
gaaaactgag tcattcctat gggatgaggc ttcgaaacaa gctttccttag cctttaagat 180
agccaattct aagttgacca aagccaggag caccctact cctttacctt aagtagcaaa 240
agaggccatc agcttagccc ttcgtccaga agatggatag caccaaagtc ccatntattt 300
tggtagccat gtcattcatg aatgtgaaaa gaaataccaa atgatcgaga aggtgacatt 360
ggcactcat 369

<210> 19808
<211> 189
<212> DNA

<213> Glycine max

<400> 19808

cgtctcaggt accatatcac tctgcgacgg cggagccatg actgatagca acttagtgta 60
tctagtgcac gattggagga aagaggcaca tgtccgcata gaccctttta tagagatgca 120
ggatactcta aagataccaa atccttcaga tctgattcat atactttata caatcttatg 180
tccgcctaa 189

<210> 19809

<211> 340

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19809

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agagcggngc agagagaaga aacactctct ggccctctcat cttcaagctt cgatggagat 120
gagcgttgca aggctaaaga aggacgagat ccagaggctg aagaaggaga tcaattagct 180
ccgacgtccg gcgacagagc tgcatgactc agagacaagc gcgacgctga agaacctcct 240
cgaagaggga gaaagaatgg tgacattcct agagacgagc gcgccagcac caccatcacc 300
atcgctgatg gtattcaaac cctaaccctc ctcaccctca 340

<210> 19810

<211> 303

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19810

atgatctatg gtccttgaat caagtatcca attccttgaa cttgacttgt ttacactgca 60
agcanatgga ttaaacatta cctttgtgag aattactgga tccagtgatt gtaccaaadc 120
ggttcacatg tgaattattg tgaattgagc tttgttgctg agacaatgtc atcaaagctc 180
tatattgttg taaagccaat ctcatatatac tattatgtgt atcttgactt tgtactggaa 240
caacactatc tacattcttc ttcgatgcat tcatgaagtt atgcttgagc actgatgctt 300
ata 303

<210> 19811
 <211> 89
 <212> DNA
 <213> Glycine max

<400> 19811

ccccacacaa caaccaccac ccacaatttt ccacacccaa aagggacgga cccccacaa 60
 ccaccacaa acgaaacgca cgacggcac 89

<210> 19812
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19812

tattcgagta tttaatacta ttctttatgt cttatttttg tcattgctgc gtcaaagnta 60
 acaatctcaa tgggaggggtg gagccatgat tgagtgcttc tatgtttaac aagtgcacaa 120
 ttgttgaaa gaggtacatg tctgcctaag cgcttctaag ataaggtagt gaacttttac 180
 gataaaaatt ctttcatctt tttattataa aaaaaatata atcatatgta tgccatataca 240
 atatctatgc ggttcttgct ccaatgagtt catttctcta tggtgctct atgccatcta 300
 acatttggtg gtggccaaat attacacaac tcatggatgg ctgctagtgt tgacaatcct 360
 taagtaaaca ctctgcaaat gatttctcgt ttacttggtg attcgagtta tttaaacact 420
 attcttg 427

<210> 19813
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 19813

agcttttctg actattaaca aacattaaaa aataaacatt aagtgataaa ttaaacaagt 60
 acaaagaagt atgtattata attttaatgt acataccaag tgaatgggtg gatcctccaa 120
 gctaatagaa ccacctgtgt gcataccac cctttttaga tgcccttttt tttgtctatg 180
 cacacttgga acgataccca ggtgcattcc aatgtaataa tagattgttc cagacacgat 240
 ctccaatcaa atatgacctt tgattttcat ttcgggcatc cataaacatc ttagagagtc 300

tatgagagga tttcgagtta gaagcttcgt taatttcatt ctcttacaga cgtgtc 356

<210> 19814
<211> 457
<212> DNA
<213> Glycine max

<400> 19814

gcttgctcta agatcgtcgg tttggtagtc acctccacat atttgtgagg gggatatttg 60
ctgggttttt tgggctcact tcctttgtgg agtacagacc caaaatgaga tgacccatat 120
gtctcattta ttttaagtga gagaggctat attagagagt gagatacagt gagagagact 180
catttgagag ggaaaaaatt tacaaatcat tgagagagat agaatgagag agaatatcat 240
tgtgatattc gcatacccac tagagagcgt ttttcagatt gcaacttcgg atttgttcac 300
cattggatcg ggctgatttg aggacaactg gttctacgtg cgtgatactt caaattatct 360
ggctggatcg agaaaaagat atctggagag agagataagt gtttcgcatt atctgctcta 420
tattctaggg gtttatcttc ttgtctctat tgtacca 457

<210> 19815
<211> 276
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19815

agctcgagta ctattgattg tttttccac ntatcccttt taattttttt atatctaccc 60
aactattcct atttccaaat tattaacata accatcccta ttactattct tagtgtgaat 120
tagagccccc agtctcgaat tcacaccttt tttttttttt gtaacttttt gaatacctac 180
attcgggaatt gaagaaccct taaccogaat ttgaaaggac tggttttttt ttgctttcgg 240
aggatcccag tttactatac acattgtcta cttttt 276

<210> 19816
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19816

aactgatgca ttggttaactt ggaacccttt tgccttgaat ctgaaatctg tcttggcgca 60
 gggtttgggt ttgtgtcct ctgctgacca ccatacagac cttngccctt ccatgcagca 120
 acctatagca attgagcagc ctgaagctta tgctgcaa atttacaata gacctcctca 180
 acctcagtag caaaatcaac cacagcagaa caattatgac ctctccagca acagatacaa 240
 ccctggatgg aggaatcacc ctaatctcag atgggtccagc cctcagcaac atcaacagca 300
 gcctgtcct tcttccaaa atgctgtg cccaagcaga ccatacattc ctccaccaat 360
 ccaacaacag caacaacccc agaaacagcc aacagttgag gcccctgcac aaccttcct 420
 cgaa 424

<210> 19817
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19817

agcttggttc aaggtactta cccgttgaag actgaagaac aatgaagaac gaatgaagaa 60
 catcgaagaa cggtcgaaac cttcgcgaaa ttctcatag aaacgttaca gaaatgtttc 120
 agaagcgcct cggcttgat tttcttcacg gaaacaattt ttccaagcaa attcgaaaga 180
 gagagaagtg cctaagggac cgaacccttt ttacttcac ttctccccct atttatagaa 240
 aattggggga gaagcttgcc acccagctcg cccaggcgag cagggttgct tctccagaa 300
 gcaacagcct tctagaggaa tcttctggag ggcccaagtg ggctgggtg ctatttgcac 360
 cccattttt actaagtaca cccctggcc ttttttggtg attctttnt cgtaaagtta 420
 cg 422

<210> 19818
 <211> 438
 <212> DNA
 <213> Glycine max
 <400> 19818

tgaaggcaaa ctggatgctg tggtaacctt ggtaacccat ctggccttga atcagaaatc 60
 tgtacctgtc gcaaggggtt gtggtttgct ctcctctgct gaccaccata cagaccttg 120

cccttccatg cagcaacctg gagcaattga ccagcctgaa gcttatgctg caaatattta 180
 caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240
 cagcaacaga tacaacctg gatggaggaa tcaccctaac ctcagatggg ccagccctca 300
 gcaacaacaa caacagcctg ctcttcctt ccaaaatgct gctggcccaa gtagaccata 360
 cattcctcca ccaatccaac aacaacaaca accccagaaa caaccaacag ttgaggcccc 420
 tccacaacct tccctcga 438

<210> 19819
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19819

agcttgtttt aatttggttaa aagaaaccga aattgaacaa agtaaagatg aaagccaaaa 60
 aacaagaaat gaattaaaaa gtctcggatt tggaaactta cccggtgaag aatgaagaac 120
 ggacgaagaa cggtaaagaa cggaggaaaa ccttcacgga tttgcttacg gaaacctctc 180
 ggaagcttta cggaagcacc tcggcttgga ttttcttcac agaaacaatt tttttttacc 240
 caaaacagct gaaatgcata gccaggggaa tcaggcacc ctagaacaac ccccttttgc 300
 cttntatag gaaaaagggg gaggagggtg ccgccagct cgcttangcg agctggggtg 360
 cttccacctt aagcaagata atgcctagaa acctctagaa gggcctagat ttgaaaatta 420
 cta 423

<210> 19820
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19820

gcttgaagtg agaaagtgtg gaagagtcag tcttctact ttttttcggt gaccatatag 60
 tggtagctgg agatatgtcg cgggggtcaa gagaccttgg ggacgtcagg tgggggtgta 120
 ttgccccaaa ccaatcttga ccaatccoga cccaacccat gcatagtcag tcagtggagaa 180
 cctgtgacgt acctaaacag gcgagctcct ggcagtcaac cgataaatga tcaaagacca 240

caaagcaagg aggcttgtgt ggtggctggc cagctatgga tcttgagtga tatttggggt 300
atggcctctg gtaatcgatt acaaaggggtg tgtaatcgat tacaaggctt aagaatggng 360
tcacgaagtt gagatggcct ctggtaatcg attaccaacg cgtgtaatcg attaccaggc 420
ttagatatag agacaatatg ttgaggaggc ctcttgtaa 459

<210> 19821
<211> 380
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19821

atcttnttat tttgttggat ttcccctgca cttacttttt ggtccacttt ttctttatac 60
aaatatgttc aagggaatc cggcttgctg gaaagcgtac cgggtcgtca agtatttaaa 120
atttaaagcg gatgaattcg agtatcaaac tcagggaact agtgtttagat aggggttaaat 180
tcagaaataa gacattgttg aaagaaacat tgataattga tgatttagaa cagaattaaa 240
ctaagtctag gctaaaaaaa tagtaaaaat gcaagtaagt aagattgaca gcagtatgta 300
aagggtgttg gtcttttctaa caaaccagct gatgtatata aagatgtttc tctaataat 360
catgcttnnt gtgtttatgt 380

<210> 19822
<211> 446
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19822

ntgtggattc ggtcttcgcc gatgatttga tagaagtgtt ttaatttaat catcctgctt 60
tgatgaataa gaaaattggg gcaaatgaag agggtgagaa tgaaagataa acccatgttg 120
caactaccgt tcctacatgg ccaaacttcc caccagccca acgatgtcat tactcagcca 180
ataacaaacc ctctccttac ccaccacca ttatccaca aagtccatcc ctaaataaac 240
cacaaaacc acctaccaca caaccaaagc ctaaacacca ccttttagcat gaaccataac 300
accaaccagg aaatgtaatt tgtagcgaat aagcctctat gggtcacccc agatttcggt 360
gtcctatgct agcttgctcc catatctact agataattta atggtagcca taaccccagc 420

caaggttcat caacctocat ttctcc

446

<210> 19823

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19823

agcttgagga gtctgcttca acccatagaa atccttgagt aacttgtgtt gggaagtcca 60
atattgcctg ccataattca tgtggtgcaa cttataaaat tgttggacaa cttcacttaa 120
tggtatttga ttttaagatg aaatctaaca tgggtataaag ccttacaacc catctttgtg 180
tattgcctat ttttctacat tgggtggagtg gggatgttga aaagtgcac atcgtttgcc 240
ttaattctga ggggtgcaact tatatactta ttgggaaact ttacttaaga ctaatcgatg 300
ttatgaatct tatgatgaaa cctaacaact tgcaacgaag agacttgtcg gttgctactt 360
gtttcaaagc ttgggtattn gtgcatacaa acc 393

<210> 19824

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19824

ntggattgaa tcagaattcg atttggatag agaagaggat atggagggtt ttgaccttcc 60
ccacgtgtgt tgggaagggtg gggaatccat cacattactt ttttttcttt ttcttatgat 120
cggtttcaat ttcaattgga gtgtccgatt gtgattgtgt taatgtgatg gattttgggtg 180
tgggtgagtgt ggattntggt ttcaggtacg ttgggatctg anggagggtt gtgttggtgt 240
gttgtgttgc gtgtttgtga aatggaggac atacgatacg ggaaaggcgg gctgtgaaat 300
gagatcgga tcttcacccc ggaacaatcc aacaccggag tctagtgtcg ggtggggctt 360
caaaatgtaa tcacacacta caggatagat tgattctatg agtaaacagc atgatgtaac 420
tntgcgttta attactcat 439

<210> 19825

<211> 413

<212> DNA

<213> Glycine max

<400> 19825

agtgggagtt gttggaggaa gttcagatga accagttgta gaagattttg atctagataa 60
tttaattttg gtggaacttg gtgatgatgc acaatttgag gaacaccttg atgatgatgg 120
agacggtgat gaaactgatg atatccatga aaatgatcct attagagaat tagacatggt 180
tcttgacgta gctcctatgt ggagcttgta ggccttgat attcttcac aatggagtcc 240
tttgcttctt gaagatgaat gacagcagaa tggagaagga agatgattgg agatgccact 300
tcaaggagaa gatgaatcaa gaagaagctc accaccatag gaagccatgg ataagagctt 360
gaaggttgga gaaaatgagt ggagggagag ggagagaaag agcatgaaat ttt 413

<210> 19826

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19826

tgaagtagtt ctcccatctc cacctctgtt tatcatctct tattccctat ctagagaaac 60
tattgctccc cctgattcac cagctagaga agcagttgat cccctgatt cccaattgg 120
aaaagctatt gatctttctt attcctcac cagagaagct gttgctctct ctgattcccc 180
agttttttta tctgatagat gaggaggatg ctcggactct gttgatctct ctgattataa 240
ctatattagt ttcagtacat tatttttgagt aattctggtt tctgattata attatgtact 300
tatactttct gtgattagcc actatgcttg gtttgaagca tatggaacaa tttgacttga 360
ttntgatgat attgcagtga aacactttta tcttttaata agaattggtg ttatgaatt 419

<210> 19827

<211> 410

<212> DNA

<213> Glycine max

<400> 19827

agcttattct tcaaacctat tgaaacgata gatcctgaag aaaatggggg gagggggggtt 60
agcattagag aatagaataa cagaattact ttgatttaaa tcttggcaac cagaagatag 120
cattacctgc caaattggca attcctatgc agacatttgc aatgtctgat ggcactccag 180

cactttttaa aacagttgaa gagaaataaa acacagcatt tataaccagat agctgttgta 240
 aagcaaataag ggttgatcca ataaaaacaa ctgcaaaacg aacttgtgaa taaaatataa 300
 cttttggaaa cctaaggaaa ccagtgaaca gataacaaca atggcaaata cactcacaag 360
 tcacaactat tccagagaca aaccaggata aatgcatacc tttagaatga 410

<210> 19828
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 19828

tgttgcta at gctggacaga tctcttatg aaacctgggt tattggagag tttagattcc 60
 ttatatggac tgtatgtgca ttctttgttg tggactctct tcaataacta agctctatta 120
 catgctcaaa ttcatgtagt tgtggactca ataattgctt atagcatgag aatgatgagg 180
 agattgaata actatctgat gattcaccct gtaccttcga taatttttca ctctgctgct 240
 acaacaaaat tataaaaaaa aaaacaaaaa gagcttatca actcctttca cacttcacag 300
 gaaaaagagc ctgaaacttg cgtaccacaa acaagttcta gtcattccca agtattcatt 360
 gttatttgat agacctcgta cacaaaactt gaattctttg aacttgtttg acaataactt 420
 a 421

<210> 19829
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19829

agcttgtatt cgattacaca catactgtaa tcgattacca gaggagattt tcagaaaata 60
 ttctcagcag tcacatcttt tcatttgggt cttgaatggc catcaaaggc ctatatatat 120
 gtgacttgag agaccttggt atcatgtggg cctttcatac cgggcgtcaa cttgactggg 180
 cacacttagt cggatattgc atgcataagg cattgcgatt aaatgggtcca ttgccatatt 240
 cacaccttgt cactctcttt ctctgccatt ttcaaattct tcttcattct gaaccttatg 300
 ttccaatcaa gagatccttt ttttaattggg gctgctgtga ttgcctcctt tggttaccgc 360

anagagcatg atggctcttg ngtcanaatg ggtgctcaac ccgctgatga tg 412

<210> 19830
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19830

tgttatattc atgggcagga taatgatctt tgatcaagat attctacaca caattgccaa 60
caacaaagtc cacagatcaa tgcttctgtc agcctataat taacttgtat ttttcagtgg 120
aagctatcaa ttgagcatga gtttgttcgt gcacctggcg aagttaggag atgaactcct 180
caatggtggt ataagaacac acttgactag ggaaacttat caagtcaaag ggggccacga 240
gtaatcatgc aataaataac gtggaaagga ctagcctggt actatgatta tcgacattat 300
tgtgagaaaa tatatcttga cagagtctaa catcccaaga ctttanatga tcgccaacca 360
aatgcatag caagttacca atggaacgat taagcacttc aatgtcactg ttagtttgtg 420
tattgtaagc actgctgaag tt 442

<210> 19831
<211> 419
<212> DNA
<213> Glycine max

<400> 19831

aggggatggg tgtgacagtg atgacatgac aatctcggca attcagctcg ccccgagatc 60
ctctgaggca cctgccgcat ggagctgtgt cttggcatca gagatgataa ttggacctga 120
ctgagttcat aattaattac atcatctctc aacattttca tcgatcttca tattatgtca 180
gaaattcaat acatttctta ttttctaaag tcttataacc ttctcttcca aaaagtcttt 240
gtcaaaaactt ggctatcatc ttttcatttt tctcctttgc aagagagcaa ggactatcac 300
tgaatctttc gtgctctctc tccttataaa gatctaggac taccctgat attctttgat 360
ctccgttcct taaacaatat tgaagacgac cgctaaattc ttttattcct tacagatcg 419

<210> 19832
<211> 335
<212> DNA
<213> Glycine max

<400> 19832

actagagaga attccatgct accttactac taccttgatg tacaacatca ctagcttttc 60
cattgtatac ttcatattca ctgcgataaa atgagcagat ttggtgagtc catctactat 120
gaccacaca gtatcatgcc cactactagt cttgggtaaa ctagatacaa aatccataga 180
tatgctctcc catttgcatc ccggaatctt caatggctgc aattctcacg atgggcgctg 240
gagctaacct aagcctttga catgtcaaca tcttgctatt attcggcaca tcttattcat 300
gcctgccacc aaaactttct taatcttgga catat 335

<210> 19833

<211> 346

<212> DNA

<213> Glycine max

<400> 19833

agcttggttt gcatcaacct tggccattct aaaatcttcc ttacottat cagtgccttc 60
tttaatgtat gcagctgggt cagtaatatt tgaatccatg ccattgatgt ttacccaac 120
atggtttctc tcagtgtctg agtcatcttt gtaaccattc atttgttcaa actcaactgc 180
aaagatgtgg ttgactcat tcccatcatt ggtggagtta acaaggccaa gataatggcc 240
agcctcaacc ccaggaaact gtgttgaggg tgctatgggt aaggcaaggc caaagccacc 300
agaaccagaa cttgtggaca caattgagaa aacaaaattg gtgctg 346

<210> 19834

<211> 336

<212> DNA

<213> Glycine max

<400> 19834

tggattgtag aaaagattaa ttacaaatgg aaaacaaagc cttgctgtta taaactcttc 60
atgtctggac aagagaacca tgtggaagag ttatgacttt tataataact tacaaccaat 120
ttgataaagt caaaaaccat ttgaagagtt atatattttg atttattcag aaataatcac 180
tggtaatcga ataccatatc agtgtaatcg attatcacia agctcttatg taaaacaatg 240
tgactcttca catttggaat tgaattttta cgttcaaaga cactgggaat cgattactaa 300
aatattgtat cgactacagc tttttgaaat aattgg 336

<210> 19835
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19835

ccccccgcac caccacacca caaaaactag acgagaacaa gactgaacnc nnncaaccgt 60
 gtgaacgtgg acccaaaanc canaanacac nnnccccgcc ccacgaacaa caacccttaa 120
 acccccccca acaacaggaa ccggagcaca caccacacaa cccaacaaca cagagagcag 180
 cgaccgcacc gaacaccacc cagcctaaaa gaccaacaca gacgccacac gaacaaacac 240
 gggcgggcca acgccaccga agcacaacaa gcgaaaaaaaa cccaaccac aaaaaaacac 300
 gcgagacacc agagacgaac ccaacacacg cgcgccagcg caccgcacac accaaaacgc 360
 gacacaacaa ggccagaaac gcaaaaaaac gccggacacg acg 403

<210> 19836
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19836

cacatactgt aatcgattac cagagatgnt tttcagatta tattctcaat attcacatct 60
 ttgtacttga ttcttgaatg gctgtcaaag gcctatatat gtgtgacttg ngacacgaat 120
 ttgctaagag ttcttcacaa caaaaagggtc ttatcctctt aaaaagcaaa tcatattatc 180
 ctcttacaaa ttcttggcc aaattacttg tgattcaata aggaattatt tgagtgtctca 240
 aattgttcaa tcaatctctt taaagagaga tttcttcttt tcttcttctt cattctgaan 300
 agggattaag agaccgaggg tctcttggtg tgaaagaatt ctaaacacaa aggaagggtt 360
 gtccttgtgt gcttagaact tgtaaaagga atttacaaga tagtggaaact ctca 414

<210> 19837
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 19837

agcttcctta tgaatanttc taaagaagtt agagcttagc tacacacaca tctctaatag 60

ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120

aagctcacc ccatgacaaa aaaaagatga aaatacaaaa gaaaagtcct tactacagag 180

actactcaaa atgccccgaa atacaaggct aaaaccctat actactagaa tggccaatat 240

acaaggccca aacgaaggat aaacctattc taatatttac aaagataagc gggctcatac 300

ttagccatt ggctcanaat ataccctaag gctcatgaga accctagggc cttcccttgg 360

atctctagcc caatctactt ggagtcttct a 391

<210> 19838
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 19838

aagtctcaca ttgtcatgtg ctctgcatta ttgtagcctg gttatacaga atcttgtcta 60

caaagtctgg ttagcgataa ctgcctgtg ctttttcttc catgctatat gtagcaaagt 120

cattgatcca gtcaagcttg atgagttgga aaatgaggcc gcaaataatac tgtgccagtt 180

ggagatgtat tttcccccg ctttctttga catcatgatt cacttgattg tgcactcggg 240

cagagaaatc aaatgttgag gtcctgggta tctactgtgg atgtaccggg ttgagcgata 300

catgaagatc ttaaaagggt atacgaagaa tctatatcgt tcagaagcat ctattgttga 360

gaggtacatt gcagaataag ccattgaatt ttgttcagaa tacttagaga aagctaaacc 420

t 421

<210> 19839
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19839

agctttgctt ttgtttcatc tatgttcact gcttttatga gggtgtatgc atatttttta 60

ttctttgatg gtaataagtt aatcgatat agtatgtgtc tgttttggac ttttggttag 120

taatgaattt tttttggagc tgagttagtg gttgtttctt tgaggtttga acctgtgac 180

tttagtaa at taatcaagct tgtcaccact aaaccaatcc tagtggccttg aagtagtggt 240
tatgtagttg gcgataatgt acaatccttt aaatagttta tctttctgtc atgcagtcgt 300
gagtttacc atcgtgtgaa gtctgtatct atggcaatgt tcacgtcaca agaagttgat 360
gctcttcaaa atgggggtaa ccaggtacaa tgggtggatta tctnttctat atttggaat 419

<210> 19840
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19840

attgaaatta atacgattat caacacttaa tttctctgga acatattata tattgcctca 60
ttcatgcata ctggtacttg gtttttccag tactttggga acaaactctt aatcaaaatt 120
cctcactact ttatcaactc tttccccagt tgcacccgtg tgtgtatata tatatatata 180
tatatatata tatatatata taacttacia aacttgcagc tagccaaggt gctataatat 240
ttgaaatcta tgaattatct cagctggctc atgtaaatct tcttctcattg ttatgtttgt 300
gtgcgaaaaa agagacagaa agaaacttat tcttttatta atataaacia tctatatctt 360
tntaaaaaaa caattanata aatttacaat tataacttac atagtgtatg c 411

<210> 19841
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19841

agcttctatt cntatataaa gaatgaagct ctgataccag ttgttagaca agtggcctca 60
gatattctaa gaaggggggt tgaattaaga tattgcaaac tatttcccca attaaaaatt 120
ctatttcaat ttcaatgcaa gttgcaagtt cccttaaaaa tgaactttta aataatgatt 180
caaatagaac aatctgaata taaatataaa tcaataataa ataaacaagt ttaaggggaag 240
aaaaagtgca aactcagatt tatactgggt cgccacacc cttgtgccta cgtccagtc 300
ccaagcaacc agcttgaaag ttccactatc ttgtaaaatc cttttacaag ttctgaacac 360
acaaggacaa tcttctctt gtgttcagat ttcattacia caagagacc tcggtctctc 420

aatcccct 428

<210> 19842
<211> 104
<212> DNA
<213> Glycine max

<400> 19842

gcttctaaac tctatacaag aatgaagctc tgataccact tgttggacaa gtggcttcag 60

atatcttaag aagggggggg gggggggtga accccccct ctcc 104

<210> 19843
<211> 336
<212> DNA
<213> Glycine max

<400> 19843

gacctgtctc atacagcatc actcaccggc agcgaagcaa ctgaattcgc ccatttatcg 60

catccctacg aagcctgcaa tgaaaactat tcattccgct cactgtacac tggacgacag 120

cctctcgtgg taatgcgaac gggctacgta agaccggact attacaacat gtcacatgcg 180

cactaacgaa gtcaaggccg cgtgaatacg gcacctaact gacttgggtat ctattctccg 240

aggaacccta ctctcgactg tgacctacac tcatttacct gctccaagg acttcactcc 300

tacatacgac aggatagacg tccctgagag acgacg 336

<210> 19844
<211> 492
<212> DNA
<213> Glycine max

<400> 19844

agagcttgaa ccctgatgac cgatgtataa cactaacctt agaagatgta tgcgcttaaa 60

agatggaaaa ggatttatca aggccatttc tcttaccaag gagcctagct ccggaggata 120

aattaagtgt tgagaggact ataatttatc gatatcgtgg tccattctta tccgatattt 180

tgactgcaac ggcattgtct gaacctaatc caggaaccaa agactagaga taatatttta 240

tatacgtgac ttctgggtct aaaaatgttc aatttgtgtt atgttaatag cgtgtaccat 300

ctatgcaaag agcgtgtttc ttgagtgcct gtgtgtactt tccgtactat gatccttctt 360

ccgttttagag tggctttcac catctgtgaa taaaactatg caactgtagt accatctact 420
 aaatatagac ccgactctac gcgcatatta tcaagcttag gctactctct ccactttag 480
 atttgcattgc cg 492

<210> 19845
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19845

agcttctatt tatgctgaac cattttatca ataaacacaa gttgagtttt attcagaaaa 60
 ttagagttaa tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
 gaacaccttg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180
 agtgattctt tccttccttt catcatcacc cttgttcttt caaaccacaa ttccagaaaa 240
 tccacctctg cccagaatta tctcgtggcc ataactccca ttntacgcac tcaaattaag 300
 ttattcttga gcctaaattg aattttaaag gagaccttc acctcgtttt ggaatcacct 360
 tatttgagc cctgttcttc agttattgcc attctatatt tct 403

<210> 19846
 <211> 499
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19846

cgggtgctttg acccggttgc tgatcccgtc gtatancccg acacactcta gaatactcac 60
 gctcgcatcc tacataccgt gtgaccacat ttataatca gattatccga cagctgccgc 120
 ggntcattta ctagagtctc tataggcgag gcaccgccta tgacagttcg acttgagaca 180
 caaacatct aagagtctta caaacatca gggctctatt ctcagccact gcacataata 240
 tgcgcctaata acggacatcc tggccaaaag acttggaat cagaattgaa tgacatgggc 300
 gcatgaatag ttcaaagctt ctctatatag agagagcccg acttgacat tcttgagaca 360
 agatatgacc atatagaccg ctgggcgctt gcgttgaaca attccaacc caccgcatgt 420
 tatgccctcg gagcgacatc ctgtaaaaga gattaactat ttgggatctc tacagaggct 480

gcgttcgact ggcgcgagc

499

<210> 19847
<211> 369
<212> DNA
<213> Glycine max

<400> 19847

agcttcatta ttatcaatac atctctatta agcctctata aataacatta ctgtagctta 60
tccaacagga gccttgctgt gagaaaaata gaaccacaa atacgattta atttgcaaaa 120
tatcatggtt aaaagtgcac aatatatattt cctggtagca attaattaag gtgcaagtac 180
aattttaaagt gcacaacagt catgtagtaa ttcataattta gaatatgtaa taattcatat 240
atcctacatt cataagacaa aatatagtaa gtttttatga accatagtta ggcatcctac 300
accgaaacag gcttcttaga aagtgtttat atattttgca actaatcaca tctactcaat 360
ttaacatgc 369

<210> 19848
<211> 442
<212> DNA
<213> Glycine max

<400> 19848

aagcttgaag gtaaactaga tgccttggtt ttctggaacc catctggcca tgaatcagaa 60
atctgcacct gtcgccagac tctgtgattt atgctcctct gccgaccacc acacagacct 120
ttgcccttct gtgcaacaat ctgaagcaat tgaacagcct gaagcttatg ctgcatacat 180
ctacaatata cctcctcaac cacagcagca aaatcagcca caatgaaaca attatgacct 240
ctccagcaac aggtacaatc ccgggtggag gaatcatccc aaccttagat ggtcgaatcc 300
ttcacaacag tagcaacaag aaccttattt tcaaaatggt gcttgtagaa gcaaagcttc 360
atgatgaatc cagattgatt caaagatggt ctgatgataa caaagatgaa tgacaaaagc 420
tcaaggtcaa tcaaagaatg ag 442

<210> 19849
<211> 382
<212> DNA
<213> Glycine max

<400> 19849

agttttcttt caagtcctaa atgacatttc aagctagtat taactcacgg taacctacat 60

ctaccacagg agggagactt agccatacag ccctcaaagc ctactcttt ttccactcat 120

aacaccacat tctcactttc caaccctagg ttaactctac ctttcatctc taatagtttt 180

tccatgagca acttcagcat ataaacatca caaacatcat cacaaaaacc ctaaatagaa 240

tgggtatgtc taactcatcc agacatggca atttcaaca gctttcaaca agagtcttca 300

caaataacca tcatgaagca gaaaactacc aaaactaccc atcatatctg ccaaaacccc 360

gtaccacaga acattaagag ag 382

<210> 19850
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 19850

atcggcattg tgccccttta gaggtagcaa gatgctacat ggtttcacca atgactcgga 60

catatcagca acaagtgtct ttccagcttt agtcaatcga ccaacatatg gatgtccaac 120

taaagacttg gccaatcat gaatatgaat gcaacacatc aactttacca tccaaccttg 180

tcctccaacc actggtttgc cacaaagctt gaagggacac ccacatttcc taagtccagg 240

atctcttcta acaaatgcag tcttctctaca cctatactcg 280

<210> 19851
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 19851

tgtttctttt caatagtctc accttctcct taagttgtcc attctcttct cactcttgtt 60

ggcgaagaagc ttttgagtct ctaacttgga ttttcagctt gttacattct cctattaaca 120

catgatcttg ctcttatgcc ttcttcaagg caacatcctt ctctctatt ggctctaatt 180

ggttgatatt acctaaggac tgctcaatt ctagaaaaca ttttatatgc tagggtaaca 240

tgggtgagat actctatcac ccctaccaag attgatatgg tagaatctaa gctggtatga 300

ttgtttttta gaacaatctc ccaattctca aacaaaataa gacgatcaat ctctcactc 360

atagacatca atatgagggg accgcaaac atcctggtac gaaccaagct agaatt 416

<210> 19852
<211> 330
<212> DNA
<213> Glycine max

<400> 19852

acctggagat atgtcgcggg ggtcatgaga ccttggggac gtcaggtggg gtgctattgc 60
ccaaaaccaa gcttgaccaa tcccgacca acccgggcat agtcggtcag tgagaacctg 120
tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggataa caagaccaca 180
aagcaaggag gcttgtggtg gctggccagc tgtgaatttt gtgtaatatg tggatgggtg 240
cctctggtaa tcgattacca aggggtggga atcgattaca aggcttataa ttgatgacag 300
gaggctaaaa tgggtctctgg taatcgatta 330

<210> 19853
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19853

agctttttat taaaatttct tccttctcct ttgttttaat actacagtat atatgttatt 60
ataatttgat gctgatttgt gtgcaggtaa gttctcatgg cctgagttgg ttgggggtgca 120
aggaacggta gcggaggcta caattgagag ggagaatcct tcggtgaatg ctattattgt 180
gcctctagga tccgtggtea caacggatct tcgaagtgaac agggtttggg tttgggttaa 240
taaagatgga attgttaata gagttccaaa aattggatag gaagtgttta cactanagca 300
catcaccata tatgttctaa taagttatga atatatagta atatttaaata aaggagttat 360
ttttccaatt atgttctttg attgcaaaaa atattttata cttttaatta tgctct 416

<210> 19854
<211> 253
<212> DNA
<213> Glycine max

<400> 19854

tctgccatta tgggcgcttg agagtgtctt atgtgagctt tatgccctta tttgatatgc 60
 tgtttttgta gctgtaaatt gtgaccaaatt tcacatagca ggcaccttaa tgtttccttg 120
 cagcaacggt tggccttttg ttgatgtgct atctatttta gtttttagtat ctttctaaat 180
 agttgggtgc ctatatacag gtatattatg gaaatgtttt gaaaatccat tctctagcta 240
 caaagttggg caa 253

<210> 19855
 <211> 228
 <212> DNA
 <213> Glycine max

<400> 19855

tagcttgctc taaatttaca ttgatgtttg tatttattgg aggaggttgt atgccatttt 60
 tgttttaagg gtagcatttc ttggtaaaac taactttcca aatgtttgcc ttgcgaggaa 120
 tggccccgag gaagcttgcc tcaaagaggt ccaagaagga caaggcggcc gaaggaacta 180
 gttccgctcc ggagtatgac agtcaccgct ttaagagcgc tgtacacc 228

<210> 19856
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19856

ntctaagttt tctattttcc aaaccttggt ctttcacagt tgacaaaagt gtgctatata 60
 tttntattct cttctctttt tgccaaaaag aatttgacaa ggactaatcg cctgaattct 120
 ttttgtgtct ctcttctccc ttttcccaa gaacgaagga ctaacctcat gaattctttt 180
 gtgtctccct tctccctttt caaggaattc aaaaagacac agtctgagaa ttcttttgat 240
 tcttcccttt cccttaaaca aaagatttca aaggactaat cgcctgagat atcntttggt 300
 tcccttttac aaagtttcaa aggactaacc gcctgagaac tttgtcttaa cacattggag 360
 ggtacattct ntgtggtaca agtagagggt acatctactt gggttgttgt aactcagaat 420
 agagaggata 430

<210> 19857
 <211> 405

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19857

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agcttgatat actttcaaaa ggtgtagatt gtgagtgcac ttgacctccc acaaagcaaa   60
tgcaaagcac agcaatgtgg gatcagtagc cccatcctta tagctaccat catcaatcat   120
gctctcccc aacaaagctg caattatata taaaagcttc aacgtaagat tgattttgac   180
aatttctaag aactaaagac aaaaactgaa ttatgtgaac atgttaaccc agacaaatca   240
ataaacaggt ggcacttaca actgaagatc cttgatcttg gagagcaggg atttagttgc   300
tccctcaatg tgctttntaa acagcttcag tttctcttcg tcaagctttt gacaagaaac   360
tgcttcttgt caaaagcagg ttgctcctac ctacaaagat aatat                       405
```

<210> 19858
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19858

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tggcacatgt tccagctgcc aatccacaaa ggaaaagctt atagctagag aggttatctt   60
ctgcagcagt gttggagtat ctatgattcc aagcctacaa tttcacaaac aatacatatt   120
cacaggtcca aaaactgcag tgtcaagtaa actgaaacaa gacattcatt agctgtgtga   180
aggaatccaa ctccatcttt aatgtaagat tacaacttac aagtggaaat aaatccatag   240
tgacataatt tgaaggttcc ttttctcaac agaacttta tctaaactac aatcaattat   300
caaatgccca acctaacaat aggtatgagg catggacacc actaatttct caattgaaag   360
cagtggtgca gcagctntat tggtgcaaat aattcatcca gcttagtgat tgacatatag   420
aggcaatagt aatc                       434
```

<210> 19859
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19859

ggcactcttc gtgtaccogt ganccctttg aactccacnn caatccaacc naccacacga 60
 taccttaagg caccgcgagc atgtatcaag cttataaaca accgacgggg gacttttggg 120
 atatgtttgt ccccatctac gctttaaggt gtacacttcc tggtaacaac aactttccac 180
 acgtttgcct atccacgatt ggcccacgag aattttgcct tatagaggtc cacgaaggac 240
 actgcggcct aatgacctct tccgttcagg aggatgactg ccaccgttgt aggagcgctg 300
 taccagcag agcttcgaag ccattaatgg atggttcttc tgcgcgagcg tatctgcact 360
 tcatggacac agtatacttt tacacgaatg atataggccc taccatgaca ttattggtac 420
 tccctgctca ttcaaataga aatacactct agtcttgcca tgcaggcctc at 472

<210> 19860
 <211> 454
 <212> DNA
 <213> Glycine max

<400> 19860

tgcttctaca caaagacgag taaaaaccga cgtagaaagg ttctaataca cgcacgtaga 60
 aaggcacttt tgtcatgggtg acaacattaa agaaattgag aaataaggaa aaatgtctaa 120
 attggtttat atatatagtc cttcaagatc tagagtaata tttattattg taccattgaa 180
 tttgagtatc ttttttgtat ttgtaactta atttgattga agtttaattc tccttacctt 240
 atatataata aaggatatgat tcagtccatc atgcatttgc ccgcattttc ttaattttca 300
 caagttaaac ctgaacttat actattttgt gtaagtgtct tttcccatct tcatatttta 360
 ttttttattt tcaaaatcgt cataagtgtt ttgttactat tcttgtcaaa gttattttaag 420
 ttgagactgc aaatgattag tggtactaat catg 454

<210> 19861
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19861

agcttgtatt agcatatata ttgntctcta tacatccaag ggtaatcata acaaaaattt 60
 gacttttagtg caacttaatc aaaaggaaaa tcataacaaa aatctcccca tcttttattc 120
 tcctttgtgc ttcaaattca acatgaatgt acattaatga cgaggatgaa aagcattata 180

tataaccatt ttcacccaacc aaaaagatta ttaccaaaaaa gggtgtacgg agagagggtta 240
 aggtaaacta taaacaaaag ttagttagta agaccatatac tnggataatt tgttcataat 300
 ttttttttaa aaaagaaaat actanagtaa aatgaaatat antttttcca taagtttcta 360
 acttatgcac tnttatttta tatagaaact c 391

<210> 19862
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19862

tctnccctat tntgctataa ataggggggag gagtgaagat tataagggtt cattcttctt 60
 ggcacttctt tctctcttga aattgctgag gaaaattatt tccgtgaaga aaatccaagc 120
 cgaggcgctt ccgtaacgtt tccgtaacgt ttccgtgagt aattacacaa agattctcga 180
 ccgttcttca acattcatcg tttgttcttc gttttcttca gtcttcaacg ggtaagtacc 240
 tcaaaccgag cttttcaatt cattctatgt acccgtgggtg gtccacattt tgtttcatgt 300
 atttttattc tcgttttcat ttgcttttta taccctattt tgacgtgctt aagccattta 360
 ttttaagtcac ttctcgctta atctaaaaat aaaataaatt tccaccgatc gtttgaattg 420
 tatcatctgt taatttcggt taaaatgaat ttcgacc 457

<210> 19863
 <211> 416
 <212> DNA
 <213> Glycine max
 <400> 19863

agcttgtggtt gttatgtgta gtgttgctac ttgaagaaag ttcttgcttc tatctatggg 60
 tttctttctt ttatgggata tagttttttc cgtgtgctcg ggtcatgcaa agtgtggcgc 120
 atcttgacgt gggagtgttt ctaaagagag aatgatgtaa gtatatttgg gagtgtattt 180
 tttttttttt ttgaaaaaaa aaagagggaa taagctaaga tgaaaactgg atacaataac 240
 tgccctaatt gaatacacat tttgtcccgga agcccttccc aagcaatgag tgtgtgttta 300
 gatatgtttt tgtagaattg gttttaaatt aacatgatta tagataatta attttaagta 360

aatgtaagtt tattgtaacg taattttttt tggataatat atattaaaaa aattaa 416

<210> 19864
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19864

ctcttctcgt ccttgcctc ttaagaatga aacaagttta gtgttgcgat tgaaaaattt 60
ttactcaatc catttctggt agtaatggaa aaagtgtgtt acaatctatc tatctgtttc 120
accttttttt ttacttgtat acatgtaaaa ttttaaatca catcacttca aatatgttaa 180
attagctcat taaaaatata atttatttgt aagtaaagtc cagattgatt atttactctt 240
ttatccaaat ttttaatttga aattcagttt taaatgaaaa aaaagggttat tgtcactgac 300
tcattttata aaataattct catccaaatt taaattttta atttgtaaac tttaatcttt 360
nttttatcag cctttanact ttaatctgaa tatatactat agtattttct tttcagcaag 420
agataatatg taggaataaa tacgtcaatg t 451

<210> 19865
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19865

agctttgact ccactcacgt tagaaaattc agtcattttc ttcatttagtg ctttctttct 60
cttcgtgaaa gccaaatcac gatctctccc atttgggatg ggctttaaga ttaattttgg 120
gogtcccatg ttctaaagca tatgcacata tatagaaatt gatcaataaa gcaaaacttg 180
gggtcatagc ttgggggatag agagatcaaa tagacaacta gttcatgaat tgatcgaatg 240
tttcggataa gatgttgttc tagaaattta aaataaaaaa taattcaaca aaaaagaaaa 300
tcatcaagga tcaaagaaga atgggttcaag tctaattctt cctctcatca aggattaaag 360
aattntatag aagaaaaagt aaactgtttt tgaataatag caaaaatgaa agataaaagg 420
gaag 424

<210> 19866

<211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19866

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ntgaggattt ggtctttgcc agtgaaagga tcgatgtggt tctgaaaaaa tgттаattta 60
gtcatcctgc ttggacgaat gagaaaacta gggcaaatga agaggggtgag aaagagggag 120
aaacccatgc tgtgactgcc attcctatac gaccaagttt cccaccaacc caacaatgtc 180
attactcagc caataacaaa cctcctcctt acccaccgcc cagttatcca caaaggccat 240
ccctaaatca accacaaagc ctgtctaccg cacttccaat gacgaagacc accttttagca 300
caaacaaaaa aacaccaaca aaaaggaatt ttgcagcaaa tagcctgtag ggttcacccc 360
anattccgtt gtcatatgct aaacatgatc ccatatccac tcaataattc aatggtagcc 420
ataaccccaa ccaaggttcc tcaacctcca tttttctg 458
```

<210> 19867
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19867

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agcttccatc aagttttaat caaagcacia gagcttcaag taggtgctcc ctaaacctcc 60
attaagtttt tgctttacct tctcttctat tgttgtttct tcatttttct ccatgtatct 120
cctcacatgt cttgtgctaa atgttttttaa catgattctt tagagtttcc accgattaaa 180
cttcctatag aagctagatt tgattttcta tggttcaaat ttcttgttct tgttcttgaa 240
ccataaattg tgttgagttt aggttccttt gagttttgtc ttgttatattt ttgtggctga 300
aacctaaacc ataaaattct tacaaaaata ttaaagtata agaaaacctt anaaatctag 360
agtgacttgt tcacctattg tagtntgtc atagaagtca tgtctagtca tgaaacttgt 420
cacat 425
```

<210> 19868
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19868

tatatgatat aaactcttat ccttatgctt tcacaagtta tttttcaaag gctattggaa 60
 tttattttat catctattat tcaatgtcca acacattatt attaaacaaa catgaaattg 120
 tttggaaaaa ccagtactta tgtagtgagt gtctttacac gtacaattaa aaaagacata 180
 actaagttac actaatgttt tatattctgt ttgttaacat ccaaatacatt ttgcttgcatt 240
 gtgaaagcat ctccaagata aatatttgct gatgcaatcc tccctaggaa gggaccagtc 300
 actagagcca tgagcaagag gctccaagag gattangcta gagttgctga agaatgcctt 360
 aagattctca tgaacccagg gtagatntct gagcccatgg gccaaagggtg agtccaatta 420
 tctttgtaca tattagacta gaatgtcatt at 452

<210> 19869
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19869

agtcttgttt atattcaccc caattccaat gtcttatgct gacttgetcc catatctact 60
 tgataattca atggtagcca taaccccaac caaggttcat caacctcgt ttctccgaga 120
 atacgactcg aacgcaacgt gtgcttgta tggagaagcg tcggggcggt ccattgagca 180
 ttgtaaggcc ctgaagcgta aggtgcaagg tctaattgat gcgggctggc tgaaatttga 240
 ggagaatcac gtgtaaatcc tgacattgac aagagatgcc acacatggnn gaaatttgaa 300
 agctgttggt agatgtctcc aatgactcat cangattttc aagtntgtac cattattgta 360
 aaccacagtt acaatggtaa atgaaatgga tatctttgtc cctcatcctc tcacaaa 417

<210> 19870
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 19870

tgcaacatca gagaacatga agaactttct ttgcagacat ctataggag cgatgtgaac 60
 acacaggtac ctatgggaat tttgcggtct gctccgagtc aactacacta gtttggcact 120

aggtttgatg acatgtcaac gagttactta cagaaatgat ccaacaattg aatcagctcg 180
gctaagggtc tggtttccga ttcaaccagc cgagccgagc cgagtttaat aacactgatt 240
gggaggggtc cttacttagt actgaaaatc ttgctttcaa tttgatagta ggtagaaaag 300
ttcttcttca tggagtatgt ctcattaata ttctcccga tttcacaat ggaggtagaa 360
aacatacaat tacagcttat gttttgaatc agagtgccat aaccagggtt atgataagag 420
catcctcatt atccctggcc 440

<210> 19871
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19871

agcttgatgt ctaangatta gtttgaagaa gtttttgaag aagttttggc ttttacatgc 60
ccaactactt tgagtggcat ttgtattggg tggtatctgg attgatgcat cttagtacat 120
ttgatatctg ctttgcacat tcatagtttg tgagaagaaa attttctata gaggcaaaaa 180
ctctctcttt taatcgatta catcctcggt gtaatcgatt acaataagtt gtctgaagct 240
tgtagagtta agtctcgat caatttaatt gattaccaat atctgggtatt cgattacatt 300
gttgtttgag acaaagaact aattagtcaa gagtctctac ttcaatcgat taccaagtgg 360
attaatcgat tacttctttc tcgttcaggt gttcagaggt gaacaataac actat 415

<210> 19872
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19872

tcaacctttg gtgcccattt ctgatcctaa tcgcgaaatt tggcattttc tgggtcgtga 60
attgcgtgtc tacgagttag acttcgaaat ttcaggtttg ggtggacttc tttctctctt 120
aattctcgtg ggtatgggat tctgggagat atgacgggta gttttgttac gtctctgctt 180
catggtagtt atttgtgaag actcttggtg aaagtgtgtc gaaattacca tgtttggatg 240
agttaaacat acccattctg cgttatgggt cttatgatga tgcttgtgat gttcatgtgc 300

tgaaattgct tatggaaact gttagagatg aagggtagag ttaacctang gttagaaagt 360
gagaatgtgg tgttgtgagt ggaaaaagag cgatgctntg agagttggaa tgtaaactctg 420

<210> 19873
<211> 262
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19873

atcttggcca tgagctgaag catcagaaag aatcttcttc taagttagat gttgcgatgg 60
agcttgattg ctttaattgaa acccatgact gaaactcaga tgctgagcca tgataaactt 120
cctctgacca aaacaaggag ggatcctcaa attcaggtaa caacacaatg gagctggcct 180
tcaaaatgat tagtactgat taggagacaa ccaacacact tctcctcaca agatggaagg 240
tgannatgtn ngttttaaaa tt 262

<210> 19874
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19874

agctntactt ggagctacgt taagactgaa gaggggaagag agccttctag tagcaaccct 60
tgactcgttc atgggggatc cgcagctacg acaacaaatt tgtgtcagtt ggtgtcgtgg 120
atgagagaga ttgaaaactg caccattgcc acgaatgaga gagatcgaca accgctacat 180
catcacgaac gaggtttttt caatcctgaa ctctttcgct caattgtcgt caacacacca 240
catcaaatcc tagccaccac catcaaaagc ctactatgaa cgaggggagac tgcaactgct 300
ccatgaccac aatctacgga gaagggtttt gaactttgat tattataaaa tcaaattaaa 360
aattattggt gttttaaaac catcagtatg tgaaaacnta gtaaagtgac acat 414

<210> 19875
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19875

tctaagcctg gtggattgtc tagtcctcct tgaagtaact ctcgagagga tttctgaatg 60
 tggcggggac cttgnnggtg ttgccataag cctgtggaaa taaaaaaaaat tcagtttggc 120
 aaagtcagtt atgtaataca caataagttg taaatttaata tataaattta tgcattacaa 180
 ttaaaagaca tggaatatgt atatggtact ttgtgcttac gcagttatgt aggaatgttc 240
 tcccataaac ccttgtcatg atcagtacga tttgcatata catcatcttc ttgttgttca 300
 tcattaatca aaggcatgtc tttggagaaa ggcggcatgt cactgacatc aagtgttgaa 360
 ccatcaatat ggtgaccgat agaaattgtt ctcccttgca aaaccactga ccatctaaag 420
 ttgtcgggat cttctacata aa 442

<210> 19876
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19876

ttcatgttag cttaataata attattaaat ttattatata taatataata atttataatt 60
 gaaagatggt ataagattat ttacaccag cttattttct cttattacaa tcataaagta 120
 tatttttgct cattntcggg tactagttca cagtattaaa agctnttacg tgccatgatcc 180
 atagaactaa aaaaaagtc aattcataga tgagaaagaa tganagatat tatttntccc 240
 agagtaaaaa aacgatataa atgagggttaa atgtaatgta tccattccta attaattaaa 300
 tcattaaata atattaatac acaagaataa ctagtaatga cgggtacact tgcttcagtg 360
 tttacgcata gcaatgaatg cctagtctct cttcttgact ttctccatat aca 413

<210> 19877
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19877

ntccttttct gtaaaagata aaaaagttca cttatataat tctttcattc atgcttgaaa 60
 caagtaaaat aatccaacta agcataaact aatacaagta gaaggataag aaaaaccagt 120
 aaatgatcaa accaaactgt attttattca tattccatgt agtcttagat acatggaaat 180

ttgatcacat gaacccatt attctagtcc cttnttttga cacaagtaaa ttaacaagaa 240
acaacattga gtgacactac ttaattataa caaacaatt aacggaataa gtgatgacta 300
gtactactta ttagttgtag tatgttcctg gggtttgaa ccagtgcag tatattta 360
ttcctttctc ataatctgg actttggtgc ataagt 396

<210> 19878
<211> 293
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19878

ttgcttctat ataagctaaa ccattttatc aagaaacaca agttgagttt tattcagaaa 60
attagagggtt atctctttta tcttagtgag agtgattctc ctaagctctt gaggatttca 120
agaacatcct gactatatca aaggactttc acaacctttg tgtgttgccc tcgccgaaa 180
gaggatttct ttccttctt tcaccttcaa cttttttct ttcaaaccac aattccagaa 240
aatccacttc tgcccagaat tatcttggtg ccatganctc tcgtttacgt gct 293

<210> 19879
<211> 130
<212> DNA
<213> Glycine max

<400> 19879

gtgtcaataa gtagttgtag tttctcatta tggggaatac ttgtacttgg gggcatgtca 60
ctcggttcag aactttcttg agactcatgc tgatcaccat gggggggggg gagggtgtctg 120
ggcccgcacat 130

<210> 19880
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19880

tcttgctntg tcccttgctc gtgcctttag ccatcatctt actttgatgg gtatagctga 60
aaccaccat aggtatacat tcttgctcc aactattgtt gtctttttat tccattagtt 120

gataatttgt cttgtcttta tttggctgag ctctgtgcaa aattaagccg caatctctcc 180
 aaaataagcc gaacctttga ctaataacaa cattgagggga atactatact tctttaatct 240
 aagattaccc cagtatgata gtcttgaaca agttatgttt ttgcaggggt cgtaaaggag 300
 gacatatggc tcttgctgca aaatcttggt atgatatctn taacnaacct gttttataag 360
 acagtgttca agcacgtctg tggtttagtc ctcatttctg 400

<210> 19881
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19881

tggtgattag gatgttntga ctgacttcta ctcataagatt cattccagtg ctcattggtga 60
 tcctcctcat cattaccttc tgaagagaaa gaagtgatca tcaagtctta aaagtggatt 120
 gaaagaatat caaagatatc tttgaggata taacagtgc aaggcgtagt ctagaagaac 180
 aaatcatata gaaaaatctt cagctaataca tgtaaagaca ttgtgagtgc attaatagaa 240
 caataaatgg atgaccattt cacttgcagt gtatcatcaa atactatagt gtatctatat 300
 tagtctaact cacaccaagg tttaaaatac tttgtagtat ctacaaacta ttttcatgcc 360
 ggaagaaaac tttncatttg aaaagcagat tntgttgcc ctcataatga aaccttntgc 420
 aaaaacattc c 431

<210> 19882
 <211> 499
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19882

cgccacaccc actcaaaacg agccaaacac aaaacgttca aactaaaana aacccccncc 60
 cgcccaagga tgacacantg aaaccctgaa naccaccaa tccagcgccc ccacaagacc 120
 caacaagcca cccacaata ttacacccat ttacacccac cacaacgggg aaacggggac 180
 gaaacgagca cccacaacca aactaacac gcaaaaccaa accaagaagc accaccaca 240
 acaagaccaa aaaccaaccc cacacacaac aaaaaccgaa acgaccaccc ggccaaccca 300

cacaaaaaac caaccccaaa cgaaacgcga accacacaca caacgaaccc aaccacacac 360
 accaccacgc cagcgacaac acagacacca accgcaaccc cacacaacac aacaccacaa 420
 cgaaccccaa accaacacaa caccaccccc aaccaaccca gcaagcacgc accccagaca 480
 acaccaacac caacaccac 499

<210> 19883
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 19883
 gtgcgtagcc caccatcttt ccataaaagt atctatacgc gtcttccatc acgatcatcg 60
 actccctatc catcattggg ggtaccacct gggccgctag atccctccac cttttgggcg 120
 tgttctttgt aagatctgtc tcaacttttg caaatgttct gtagttgcat cctatcctga 180
 accatatcaa acttgttctg atactgccta tcaaaggcca ccattatgtc cttccaagaa 240
 tggactcggc aagacttcca gtcagtgtac caggtaacag ctaccctagt aagactttct 300
 gggaatgaat gtatcagcaa gtccctctagt tctcgtatat ccccatctcc tgacatacat 360
 ctttgatggg cttgggaaag agtccacttt acttgtcata tcaatc 406

<210> 19884
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19884
 agcttgagaa ggaacagaat tattttttgta tccactctca gctctgtagt ttaaaccaaa 60
 tatccattcc aaacaagcac aaagaataaa aatcattgt aattattagg tctgttggtt 120
 ttgaggatat cctctcccta gttggattgt ccttttctat ctaacaagct tactatttta 180
 tctgaaaata aaagcacttc ttggtatttt actatttagt atttactata ttatacaacg 240
 gaaagaaaag catcttaaaa ttattcataa aacttactac aataaacatc atcatcattc 300
 aacanaaaca ttcaaaaatg aacgagtcaa caatgtgaag tttgggaggc caaaatgaaa 360
 tatgaaaaat gcaattacag caaacatgct taaatccaaa agaactctaga acaatactga 420

catc

424

<210> 19885
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19885

ntgaatcata aaaaaaatac tttaaatagt aaaattttta tttaaagtgt ttttcaacaa 60
aaagtaaaaa gaatatat tttataataat tttttataaa aacaaaataa aataataaac 120
actaaattac agtaagtaat atatatatat atatatatat atatatatat aactgcggc 180
atactccttc caaagttgcc actggtaatc tgattcctgt tccatcttct caatatccac 240
tcaccctttt gtgctgccac taacaaaaca gcacttcaac ctcaaatttt caacctttgc 300
tcattcatgt cccttcttcc ttcactgcaa acaccaatg ttcctttcca tcctaactac 360
tagtcattct cgcaaccagg ttagtttcat gtctttcact tccatatct ctcttctttt 420
gtgttttttg ttccaacaac taagcaaaat a 451

<210> 19886
<211> 399
<212> DNA
<213> Glycine max

<400> 19886

agcttggttt ttcttattcg atatttttaa tttgcaaaat tgaatgttat tggagttgca 60
ctgtttatca tgcttgtctt gtacttaaaa atatttaact tctgcatttt ttttattcca 120
cagaactttt acatgatagg aagggacaag agcaggacat attggaaagt actaaagatt 180
gaccgtcttg atccttccga gctaaatttg cgtgaagatt ccaccacata tacagaaagt 240
gaatgttctg atcttttgag acggatacat gagggtaaca agtccacagg tggactaaaa 300
tctgctacaa ctgtttatgg aattgtaggt atgtaaatcc ataatgtctt agctacctgc 360
ctgttgacca attatgagtt actgtctgga tatactatt 399

<210> 19887
<211> 301
<212> DNA
<213> Glycine max

<400> 19887

tggatgggcc ctgaatattc tagctctaca gcttgtgcta caagtaactt ttggatattg 60
aatgcacgca accatatcat tagaggtgaa gctgcaagta tttttgcttt gatatgtgct 120
cttaggatct taaaactctc atattaaccc tgacctttac ttattgggac aaaatttggc 180
tcaatgatgc tctctctttg tcaaaaggcg tcaacaacca agtaacatga aatctgctgc 240
cgatggaagc tctgggtggc cagagctgat atataccatt ggatccttta tactattctc 300
t 301

<210> 19888

<211> 417

<212> DNA

<213> Glycine max

<400> 19888

agctttgctc gtatttgtca agtgtatgga ccacgttgta gccaaagggtgc tcatcgataa 60
tggttccagt ttaaactgta tgcccaagag cactttggag aaattacott tcaatgcttc 120
ccacctaaag ccaagttcca tgggtgtttcg tgccttcaac gacacccgcc gagagggttag 180
gggagagatt gacctccccg tacagatagg cctcacacc tgtcaagtta ccttccaaat 240
aatgggcatt aacccccctt acagctgcct gttggggcgc ccgtggatcc actcgggtggg 300
agttgttccc tctacactcc accaaaagtt gaaattcgta gtggaagggc atctgggtcat 360
cgtatcaggc gaggaagaca tcttggttaag ctgccatcc tctatgcctt atgtgga 417

<210> 19889

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19889

ctaagcttga caaaattacc actgctgtct tctaacaaga tttaaaggga aatctctcta 60
aagatacatc taataatacc cataattata acacatacaa aacactgaca gaaacaatgg 120
gtatccaatt caagaaggat acaactatta acaaaacaaa tattcacaaa taataaaaaga 180
ataacaaata gacacttaaa gaactaaaat aaacttccca aatagaaaga agttcctcgg 240

caacggcgcc ataaacttgt tcgacgaccg acaagtgcac cggatcacgc aagtagtata 300
acacggtaag tgaataccga gtatcgaact ctcgaggaac ttgttttact tggtaaagct 360
gtggtttagta aataagtgtt ttgggtgaaa cttgtgtctg gtatgacaag atgcanacta 420
actatcaaaa gaaatacgtg agta 444

<210> 19890
<211> 409
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19890

agcttatgtt atggatcact gtatggtttc ctttaacctc agtctatcca taacgcaaag 60
aacaacatg aagaatgcc aattacatt caaaaatggg tcaaggaatc acaacgaana 120
gtgtacttgg gaccttacct aaatcagtaa gttgaattga tgtttagtaa tatagatatt 180
atgtgcatta ttgttgcta actaatgttt ttcgtcttca aggcacattg gcaacttgtt 240
gttctgtgtc cacgggacaa tattgttgtt tggttttgtt ctttgtgtaa gaagcctgat 300
gttaacatca agacaacaat gaataagtta gttntaacat taaaagtcaa ttgaaatatt 360
gcaattgtan ggtataaaga caatgattat ttgaatatat acgttaacg 409

<210> 19891
<211> 350
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19891

ctcagcttct cccccaattt ctataatagg gggagaagtg aagtttatna gggttcagcc 60
ctcctggtaa ttaaaatcac ttanaattag tgagaaaaat tggtttcgtg aagaaaatcc 120
aagccgaggc gctttcgtaa cgtttccgtg gatgatttcg cgaaggtttt cgaccgttcc 180
tcgacgttct tcattcgttc ttcgcogttc ttcggtcttc aatccggtag ttccctagat 240
cgaacttttc aattcattct atgcaccctt agtggtcctc atttgttttg cgtgctttca 300
tttacatata atttactttt cggccccctt ttgcatgctt aagtcatttt 350

<210> 19892

<211> 314
 <212> DNA
 <213> Glycine max

<400> 19892

agcttatatt gattctaaat cattcaaccg aatgccatac atgtactcga gaacaatgac 60
 tttgtctgca gactataata ggaagcaacc agattatata aataagaaga attatggcaa 120
 aaagataaac gagtaggaat taacacgagg cgcattgatt ttgaaccggt agcaaactga 180
 atgcaccaga cacttatgca accactggaa attgcactac acatgatata taaacacatt 240
 aataagctaa tcagcatata attatggaga aaattcattc ttttacttgg tatggcacct 300
 tgtcgggaaa tatg 314

<210> 19893
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 19893

tcgttgtgat gctagagctt agctactttc tcccatgttt taactaagct cacctgcttg 60
 agaagctaga gcttagctac acacaccctt ctaataacta agctcacctc cttaagaaga 120
 gaagctagag cttagctaca caccctata atagctaagc tcacccccat gactaaatac 180
 atgaaaatac caaggaaaaa tgctactgca aagactactc aaaatgctct gaaatacaag 240
 gctaaaacc tatactgcta gaatggccaa aatacaaggc ccacaagaag aaataaagcc 300
 tattctaata ttacgaaga agagtggagc caaccttgac ccatgggctc agaaatctac 360
 cct 363

<210> 19894
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19894

agcttgattt aagaaaatta ttaattaatg taaggttaca aaataagtag ggataattaa 60
 ggttgattaa tgacgatcta gatttcattg aattagaaaa tgggtaatta agtcacaaga 120
 gtttaaaatg gagggcattt ttgtaaatga ctatacaact agtttaaaaa tagaaattta 180

gtttaattag ttggtgacaa attaaagtgc ctgattatac aatgtagaat aattaaata 240
 agttagagtt gtaacaccct gaaaaattac aattcagatt gacagagaan actctgtggt 300
 gtgtcatctg tgcattgtant gaattaattt aagtatttat atgctnttaa tcatagaatn 360
 ttgtgttatg tatatatgtg tgtgtgtgtg tatgtgtgtg gttagtgtgt ttaataa 417

<210> 19895
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19895

tatcacccgt atcagcgtt gaagaagggt ttaatgggtt tcaggaaaat gagagtgcgt 60
 ctaaaccatt agctaggaaa gaagtttatg atcaggttaa ggacatcgta actatctttg 120
 ggaagacca aaagaagcca tcatctgaga caaacatacg gaagaaaatg tcaatattct 180
 tttatcttcc atattgggtcc gatcttgatg ttagacattg tatagacatc atgcatgtgg 240
 agaaaaatgt gtgtgatagt ttaattgaca ctcttcttaa cattaattga cactcttctt 300
 aacattatac gaatgttctc atttctcagg ggatcattgc agcaatagta accacaaaaa 360
 aaaaactatg ttgtctgata aaaaaataga aatcaaacag caattgggtt gctttatnt 420
 ttcccatcaa tca 433

<210> 19896
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19896

agcttaatat tcaactacat ataatatgtc tggacatata attatatgat aaaacttgct 60
 tttgagctta ataagtactt tgcgtcaaa taatcttcgt tgtttttttt catttaagtc 120
 acccgactat atcctatgtg tgacattctc attaatcttct tcgtcatctt gtataattga 180
 tcctagatat ctaaacttag agacatgtga tgtgagatct tcccccaatt ttattaaagt 240
 ttcaattaca ttttttttct aatttaagga cttaaatgaa ttacactttc ttatgcagga 300
 gacaatcaat gtagactatc agtatagctn tgggtcacaca ttntaaaata aaactagata 360

aaatacacta gatcccanac gaatgtatgt aaactntntt gagacccttg atcttattag 420

<210> 19897
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 19897

aaaatcagtt gtgaatttga ggggtgagtt ttgaatttat tcttttgggt taaattttta 60
 aaaagatggt acaaattgaa tagtaataaa atgagtcaac cattttatct tatctcgctt 120
 tactatggca taatggcggg gacgatggtg acagtggcgg tggaaagggtg atgctgggtg 180
 ttaaaagcta gagcagcttg acacgacctg aagatctggt caagtcgggg taactatgga 240
 tgcaccatgc attaaatcta ctacaaccga gtacaaccta accaggtcgt ggacacccaa 300
 gggagaaaaat 310

<210> 19898
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19898

agcttctata taactggtct cccattggag agggattagc tcttgtagtt cctttctagg 60
 gatctagaca atagatggtg tttcttcttg gttgttagcc aggacaaaga gagcattgtc 120
 atgaatggta ggcagagaca gattaacagt atagttctgc aatctatata tgatctgatg 180
 atgcaaggta gcagaatggg cctcaaatac ttgttcaact ccagtgatct agctntaaac 240
 tttcatcctc tgtgggagag tgggatcttt caaactgatg ttagaatttg ggaaaatggt 300
 gagaactata cttccaacat ggagactagt caatttggtt ctgatcatag cattntcata 360
 gtgaatgtaa ttggagtcta atagagagac tctggcgggtt acaagtagtc ctctt 415

<210> 19899
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19899

ntacagtcct tgactgtatc cgagcatagt ctactaatg tgtccactga tctggcacct 60
ccactaatag tccatgacta ttagacgttc ttgggcagca cctcaactct ctagcacctc 120
aattggctct atacaacctg gctctagata ccaaattgta ggaagtaaga aaacaagcta 180
aatattctac tcttacacac tcatatttga aggaagaaag agagctatag aattgattnt 240
gattcaattg acacacacac aaagcagcgt acatgatctg cattttatag gcaagttctc 300
ctaaataaac tattacataa ataaagaaaa ccactagac taagtaaacc aaaaagaggc 360
tccgactgga aaaaggtgca ttgttgatgg tcataagttg caacttactg cagctgtata 420
aaacaactat gcag 434

<210> 19900
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19900

ttattgtttt acacaacagc gccgaggata ggtagagtcn ttgacacttc accgacacct 60
tctcacaatg atgtctgac gccatcgga atggacatac atatgcctga tatatacaga 120
gactgcgaga gcatcatgga accatgaagt gccttgctgt gccttttctg taagctcaaa 180
tgactatcac gtgactactt atggtagtat actaaatcgc ataagaaaat atgacgagtc 240
ctcatgttca tataccacat gctaagacac acttctgtga acgaacgac tagacaatat 300
tcttcgatga tagacgccgc tgggcattag caagagtacc aggattattc tgggtgtagat 360
caggttcact tgctactagg tgtaagcgtg aagcatacct tgttttattc gatagcttta 420
acagtgactg aaagatgctg ggg 443

<210> 19901
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19901

gggggacatg antactatgc gggctgcata nacgaagtgt tttgtccatg aacaaaaggg 60
gttctatatg caaagcttct gctttgctg aagatataaa gggcatataa acaatttatc 120

cattatactt tcagtttagc aatatccaca ttctcgacat aaatccggat attccttgaa 180
gcgtagtaaa cagacttcca ttcggatatg tagctcgaat agctaattgct atactcctat 240
catgagtcca tgaattcagt ctctttgctt cactcttact tccggaacct tggaactaaa 300
ttacggcctt gaatattgat ttaatccatt gaaccttgac atcgctttga aggtctgtga 360
acttcaaatg aacaagactc ttggcaaagc aaaaatctac tgattgcgag cgcgtagcg 419

<210> 19902
<211> 280
<212> DNA
<213> Glycine max

<400> 19902
agcttcctta tgaagattcc taaagaagct agagcttagc tacacatacc tctctaatag 60
ctaagctcac ctctttatga tgagaagcta gagcttagct acacaccccc tataataact 120
aagctcacc ctatggcaaa atacatgaaa atagaaaaaa aaaatcccta ctacaaagac 180
tactcaaaat acctcgaaat acaaggctaa aaccctatac tactagaatg gccaaaatac 240
aaggcccaaa cgaaggaaaa acctattcta atatttacaa 280

<210> 19903
<211> 425
<212> DNA
<213> Glycine max

<400> 19903
tatagaatat ataataaaag aaaaatgaca attgaagagt ctatacatgt ttcctttgat 60
gagtctaattg ccattcttcc aaggaaggat ttttttagatg atatttcaga ttccttagaa 120
gatacacata ttcattgaaa tgactctaaa gaaaaagacg aaggaagcaa tgaggattct 180
caagataatg gggctagagg aaataatgaa cttccaagag aatggaaagc ctcaagagat 240
catccccctcg acaacattat tggatgatata tcaaaagggg taacaactag acattctctt 300
aaagaattat gcaataatat ggcttttgta tctatgattg aacctacaaa tataaaagaa 360
gccatagtag atgataactg gataattgcc atgcaagaag aactgatatc aattgaagaa 420
ataat 425

<210> 19904
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19904

agctnttgtg tgaaaggatg tgactcttca catttgaatt tgaatttcaa cgttcaaagg 60
 tactggtaat cgattaccaa aacattgtaa tcgattacag ccttttgaaa ataattggaa 120
 cgttgtaaat tcaatttgaa aactttntca aaacaatntt gctactggta atcgattaca 180
 acaatctggt aatcgattac cagagagtaa aaactctttg gtaaaagggt ntgtcaaaaa 240
 ctcatgtgct attcaaagtt gtgaacaact ttntaatact tatcttgatt gagtcttctc 300
 ttcaccttg attcttgaga tcttgaacct tgaatcttga ttcttggtc tagactttct 360
 tcttgagtct tgaattcttc ttgattctta ttttgaactc 400

<210> 19905
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19905

tgtaatgagc ttcataacaa agaaagggaa acataggctt ttagggctat caaagggatt 60
 aattcaaggt aaatccattt ggctagaggc ttataagaac aaaattgcct aaatcatttc 120
 caaatatgca tgtgaattaa gaagcatcag caagaatcaa gccaaaggcta ttgtgcaagc 180
 aatcattggg gcaaaacaca ccaaatgatt atgatgatgg ctcaaattct caciaaaggta 240
 aacttatcac ttccaaattg agctttcaaa actatcataa gcgactttta ttttcaaaac 300
 aattactcat tacttgaaca tatcctataa ttcaaagaan aatatngcaa agtgtacaag 360
 caaacagaat tgacctaaaa tattaaacta gaaacccaac aaactaacia cattaacaaa 420
 ttaacacaac 430

<210> 19906
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 19906

agcttgcaac cttagaacat ttattgtttc caataagcaa ttgagcttca atttccttaa 60
atctctcaca tacggataaa agaagttgaa ttctctcatcg aaagtctctg tagtataatt 120
cattatctgc atcactccta agtcaactca nacttattta tgaaataaat caagttaaaa 180
ccttntaaaa atctatttag ttacaaaaac aaaaacagtt ccaaactata ttaaaaaaag 240
ccgaaatgat cgacgaaggt ttgttaaaac tagaaaatta gtaaaataaa tcttcgaaca 300
tatgtgacaa gtatagggtc tgtcaaaaag aatagtataa atacagta 348

<210> 19907

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19907

tgagaatagt acattatagc attaaatctt gattattatc ttatgcagat gataaattgg 60
ttttaaataa gataatcccc gtacacacac atgataaaaag aatagaaaac attgtgctnt 120
gtagaagtac taaaaccaca ggaaaatata gagaagctag gactaagaga atgaaagcca 180
aagtaccaa gttttgtatt ataaccctgt atttctttac ccttcattta ctttttgcca 240
tttttagtaga acttttgaga tatgaggatt atttttaaca ctacacttta cagcaacagg 300
tatttcgcag tacaaaagtgt tgtcctgttc tataaggatt actgaacaca ggaaagcatg 360
agccttaaga tcaaatcagc ttaatgtttt ggtagattt gagtg 405

<210> 19908

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19908

agctntacaa cttgcttctc tacctcacgc cgctactctt gcctgactgc aagaggacaa 60
gattaatgac cgccgaaaac actctcggac ctcgtttctt tccccacaac aaccagcttc 120
agcaccatcc actcaaacc aaacacctcg ccctaagact cctttcatac agcgtactca 180
cgaagagatg acctatatgc gcgaaaagg cctctgctac aactatgatg agaaatggaa 240

cttatcacac cgtattaagg gtcgagtctt gttttcattg cagcctctaa tgatctctcc 300
 cactccgaca tagctctgct ggaagactca ccacccctac ctattgaaca ccttcacctt 360
 ttgaccacaca cc 372

<210> 19909
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19909

agctntgggt tcttctattg agatacttga tgcaattagg gtttttctct acttgaaatt 60
 atttttgtgt tctatgttga aggcacaaat accaaacacc aatgtctccc gagtttggcc 120
 taattcaagt taaactttgt tcttagatgt ctcttgttga acttagccta accgaacagc 180
 attacaatta cagcatgata aaaactaaat taccacactc tgtgttcggc agttcgataa 240
 cctagcccta ccctatccag ttctaaggat gcagtacatt atgcaatact aaagctccta 300
 accttacaca caaatgggtg atcaagccac gagcatgcat aacataagca cagatagaat 360
 aattgaacac ataaaaacaa cttcaaatag atagtaataa tatt 404

<210> 19910
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19910

tagttgtaaa ananattaaa gatctttntc ttatctttcc agggctctact cacacgttcc 60
 atttggagtt ctttagtgct ttctaggctt gcacaaggca gatagggtcaa gtaagcacia 120
 aatctaaaat ttaactacaa ttctcaatta agctcaatca ttgccttag accaaaaccg 180
 agttaagggtg agaaaataag ggtcaaagag atttcaattg acctaagaag aatagaaaaa 240
 tattaacta caaatactca atcaaattcc cccacacttt atcatttgaa ctcatgggaa 300
 aaactaaaag aaagattaag ataaagaaat caaacttaga aaataaccac actaaaagaa 360
 ggtatgaaca aggtgtcgta acctaccctc acgacgggat ggtgaaggcc aacgtagata 420
 gaccacagtg ttcattctct agggagaaaa cgcgtggagt cgccaccaac a 471

<210> 19911
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 19911

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agcttgaatc ttctacccta tttctgacag ccagtgggtg agtccagtcc aagtgggtcc 60
taagaagata ggcctcacag tgatcaagaa tgaaaaggat gagcttatcc ccacaagagt 120
gcagaacagt tggcgagtct gcattgatta taggaggctg aattaggtaa ccagaaaaga 180
tcattttccc ttgcctttca ttgatcaaat gcttgagcgc ttggcaggta agtctcatta 240
ctgctttctt gatgggtttt ctgggttattt acaaattcat attgctcttg aggatctaga 300
aaagaccaca ttcacctgtc cctttggcac ttttgccat atgaggatgc cctttagcct 360
atgcaatgcc cctggtacct tccagcgggtg tatgcttagc attttcagtg actttttaga 420
gagtcgcata gaggtgggta tggatg 446
```

<210> 19912
 <211> 463
 <212> DNA
 <213> Glycine max

<400> 19912

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ctaagcttgt gaatgcctgt tggatgatat acatacccat tcttttatgt ttttgtgatg 60
atgtttatat gctgaaattg cctatggaaa ctggttagaga tgaagggtag agttaaccta 120
gggttagaaa gtgagaatgt ggtgttgtga gtggaaaaag agtgaggctt tgagagttgg 180
aaggctaagt ctgaattctg tggtaaatgg aggttaaaat gagttaatcc tagcttgaaa 240
tgtcatttac aacatgtgac aaagggttagg ttgtgctata gggaaaaact aatgacccaa 300
gtgaacaaag agccatttct ggggcacaaat tgggtgttga atagtcaa at tttgattcgg 360
tggaatttta ggtgtaaata cagtatgggc aagtctatat tgatgttatg gactgggtgtg 420
aggtgagagt ttgcctcata tctacctcat tctaaatctc acc 463
```

<210> 19913
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19913

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agcttctagc ttaatgctct taccttgaat taattccttt gatagccctt ttgagccttg 60
tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatatcacc 120
atatccttaa ggaattttgg agctttggaa ttgttttggg aataagtgtg ggggggtttt 180
gtttcattgg ataacttggt ttgttggcta tgcttcatga tgtattttgg gccatacttg 240
atgtacactg catattgggt aaatgttggg catgctgaat caaatgttgt ttctcaaagg 300
ctatagagta aaaaaaaaaa aaaattcaaa aaaaaaagag aaaaagaaaa gcaataaagt 360
tgagtgaata agatcttana tggcacaaga atcatgaaac tctttggtat actctctatg 420
tctaaattnt atctttactt ctt 443
```

<210> 19914
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19914

```
tctnccccaa ttntctataa atagggggag aagtgaagtg naaaatgggt cagcccctta 60
ggcactttct tctcttttga atntgcttgg aaaaattgct tccgtgaaga aaatccaagc 120
cgaggcactt ccgaaacatt tccgtgagga atttcgcgaa ggtttcgacc gttcttcgac 180
gttcttctct cgttcttcat cgttcttctga tcttcaacgg gtaagtacct cgaaccaagc 240
ttttcgattc attctatgta cccgtgggtgg tccacattgt gtttcgtgta tttttattct 300
cgtttcattt gctttntata cccctttttg acgtgcttaa gccattttat ttaagtcatt 360
tctcgcttaa cctaaaaata aaataaattt ccaccgatcg tttgaattta ttatccgtta 420
acttcngtta aatg 434
```

<210> 19915
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19915

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agccttatag atgatacaag atcattttaga tcaaacatgc actgtttctt caccagata 60
```

gattntaaag atccttaatt atgatagana taaaaaaaat ccttaattat gatagattnt 120
aaagacaata tgatattaca ctnttagtgc ataattatnt ttctcgaagt aaattaataa 180
taataatctt aaaaaatagg acttattcaa aaatgttttt ttagttttta gttatgaaaa 240
anagaccaaa ttcaaattaa aaaaaattga aaaaattgaa natataatta aacttaaagt 300
ttataataac acaacagtag tatataactt atantttccc tctcgtctta ccaatcttat 360
aaatatatnt tagaaatntt tttatcatat cgттаатссг tgtcataaag atccaatgac 420
tagtgacctt t 431

<210> 19916
<211> 288
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19916

gtttgagatt ntctcactgg taatcgatta taggattcta gtatttgatt acatagttat 60
atgtttgaag agttatgact tttcaaagg ttttttttaa aatctcttca atgggttatca 120
attacaggat tctagtaatc gattactgat cgaggccata cccgaatcaa ataaacatta 180
aaaatacagt atctaggaag tgatcctagg tctgtctccg acgagcaagg gtcaaacaaa 240
cgttcataac agatagtagg aaaatattaa cgaattgggg gggggggg 288

<210> 19917
<211> 195
<212> DNA
<213> Glycine max

<400> 19917

agcttgatg attcttagtt gttcgccaga tacaccgcta tctctgacgg aatacacacg 60
tgagcccatt tagaggtaat agataagatc atcgcggtta gaatggacat gtgtagagat 120
actcacagga tcagatcgcg atttattctg ggatatctat tgtattgtga tgcttcctta 180
atgatcatta ataca 195

<210> 19918
<211> 261
<212> DNA

<213> Glycine max

<400> 19918

aactaagctg gggatggctg cattcgacaa agacggaagt gccactact ttgcttgata 60
aaacaatggc tagaccacaa cagcgtgga ggcggcaacg gacaagggac tgacaaaaaa 120
attatgtaga catgaacaaa caatagatca tgcgagagc gtgccaggtg aaccaagaga 180
agcactgaac aggtgttaga ccagctacaa acaatgtgcc tgagcaaac gaaaacccaa 240
aacgtgaccg acacagatga t 261

<210> 19919

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19919

agcttggttaa atactaaaaa aaaagtttaa taaatatttt aatgataaga aaagaataaa 60
atataaaaaa ttagaagtca aacattttta aaaagtgact tcaatgacat ctttaaaaat 120
gtttattttac ggaacagtca actaaaattt ttaattatta aaaaaatcta gaagctaatt 180
aaaatatatt ttgaaacata acctaactaa atcaacatat ttttagaatc ttgatttagt 240
ttgtatcata tttgaatttc tcttaaaatt aattttatta cttatgtttt gggttaaattt 300
gagtctaaat aagaagcgat cataaatggg ctgctcttaa agtattcttt atttatatan 360
ttacaataga aacatgaaat agaaataatg ttaattggta ttatctaaat aattatcatc 420
ttatcaacat ctttataaca aa 442

<210> 19920

<211> 352

<212> DNA

<213> Glycine max

<400> 19920

gctcattatg ttattgttct ttcaaagtat gaacaaacac tatgattgtt catgatagag 60
cattacagca tataatatat tattacattt ctgaaacgac atacaacttg tgggtgttacg 120
atgggtgcat agccaaggcg atcctttgct tttgagcaat caaatgttct gctgcaagat 180
atgagtctta ttcttgaagg aatgagttga ggcagctcca tcccatatgg gcctagcaac 240

ttatatatgc actccaacca atgtgcactg ggcatgataa caaaagtggg ggatctttac 300
ccttggccta taagcaacat gacttagatt acaaagaaat ggcattgaca at 352

<210> 19921
<211> 314
<212> DNA
<213> Glycine max

<400> 19921
ttgcatgcaa gcttctactt tagtgcttgg cgggctgcct tcactttggt gtctcgtacg 60
cgagctttga ccactattct tccttaccga gatgcttctt ttcattctct gctgagcggg 120
cttatagcct ataccatact tgccatgata tacttgcggt tttataacgc tagttatgcc 180
gtcgttgtct ctgtctaaac ccattccatg ttcgtaaccg ttccccaact taactcgggc 240
catcattact gctgcatctg acatactagg ttgcccata atggagttca ccgatgaaat 300
gctgaccacc tcaa 314

<210> 19922
<211> 418
<212> DNA
<213> Glycine max

<400> 19922
agcttagaat tattgagata tcattctgtgc gtttcatgga cccaggagcg gactttgact 60
tcagtttctt aattcttcaa ttgtatgttt aagtttgaaa caattttttt ataaaaaaaa 120
agagggaaaa gacatcaagt aacgcaattc tccttgga aaagtcaaga ttctgcacta 180
ggcttacata attcatataa actattaagt taaatgacaa aatatataa attatgaaga 240
aacaccataa tataataaaa agagtaccac attcatacat accctcatca acatcaacag 300
caaccacaag tttctgggat aatcgatgat cactgaaaca aggaggctta gcaggacttc 360
catttataga tccattatca accttaacca gagtagcatc actctcatca ctcttaac 418

<210> 19923
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 19923

tgtatcacca cttgacaaac acaatgatct gaataaaagt ttatttaaaa tgttgtttca 60
tcgattgaac tcgtatatgc acaataatgt ttaatgagaa gggaagagac aganagcaaa 120
acgtaatcat ttggattaca gtccatgggt caaacttcag agttccagag acaggaacct 180
gaatctactt gcaaaaaata attaaatgaa aactgaataa gctcagccaa tgttgtagaa 240
gaatgaatat tataatttat ggcaataaac taggattgtg ctatttttga gctagctttg 300
tctggcaatg tcttttcctt tctcagacca acgatgcatg tgcgatatag gagcagaaaa 360
aattattgaa agaatgatga tactagaacg ttctatcact tatataccan atcatggcaa 420
ggtttgtcac aa 432

<210> 19924

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19924

tctgctttaa tgtttatgtc acattagaga atgtcaaata accatatcan attatggaga 60
ttgtgatatg gtattgtaaa tgacatctct ggctagagtg gctttgatta ggatgacact 120
aagtacatga tcacagttga gaataaaaat gcttggaatg aataatgcat tgtaagtatt 180
cttttatata tttctatctg ttattcacia ctgattagat ttgactttgt ttccagtcac 240
ataaatcggc taaaccgttt cgattcaaag tgcttcacia ctgggatgat atagtggatt 300
tgtgcgctaa agatagagcc actgggtcatg gagctaaaac tgctatggat atttatgaag 360
cgatgagttg agaaa 375

<210> 19925

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19925

ctataatact cagcttgagc caaagggaaa agaacttag ttattcaatg tactctcctt 60
aatanagtgt gttcaatgca aagttaccac tctattccat ccaaccttga ggattgataa 120

aaccattatg ataagtcttc attaaaattg ttcttgaata ttgcttccat ggtctttgaa 180
gataagtcct aaccgggttt tgaaccggtc tcacatctga ggcagctgtg actcaagaat 240
tgccaattga aattccagtg ttttggttg gatcagttct gccttgtgca gcgatgggtg 300
tgactatggt gggagggttt cttgcaagg gttgcaattc tgtaacacaa caacaacaac 360
atgctacagg agatttncat caacttcct gccacacgcg tttgggtaac aacaaaatga 420
taagtcaact aatagccagg agattacatt acactttcac atgcacac 468

<210> 19926
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19926

agcttccgc ctgtgtcaat ggcggcacc acgttcaaaa gtgaccccc cccccgtaa 60
tttgttttaa aataaacct cttccgtaaa tagttttcaa aagcatcccc cttctgtaaa 120
tttgctcgg tgtgaagata gtctagtatt caagcataga tagcaccata atcattgctg 180
agagaattct aaaaatctcg gctaataatta accaattttt atgtcaaaca accaatctga 240
caattttcac aaatattaat cattttcatt aatgttaacc aatattattg gcaaatgaac 300
aattgtgtga aaaattaact ggattctata cattattaga tttatgattt ttgttcttaa 360
attaaaataa agactgttct cttaattata tattttttat ttttatgatt canaataaat 420
aaataaaaac ttaagaga 438

<210> 19927
<211> 463
<212> DNA
<213> Glycine max

<400> 19927

catccaaagt ggcattcctt gtaccaccaa attcctaact cagtttcctt taaagtccta 60
ctaaattagt acaaagtaac atgtaacagt ttagtgagta attcaacatt gtacataata 120
agtgcctctg cctgtaaaat ttttaaaaac atatacatat ctaacatgaa cttaatcttc 180
atctcaagat gtgttgagta ctatatactt atttatgaaa gatgcaaaat tcacccatgt 240
taatttgga gggactatag aatgcaagat tgtttacaat cactggagga agtctgcaaa 300

gattgggttct ggatggaagt cttttacaaa ttcaaaaaat ttggaagcta gccaggatat 360
tatatttgag ttcccaaata caaaatctaa ctctgttcta ttctgcattt gtttgtaatt 420
taagtacatt atactctatc aatctctata aacttatgtt tat 463

<210> 19928
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19928

agctnngat gttctntgtt gagcttatna gtggaacaga tagatgaaga ggctgaatcg 60
ttgagaaagt ttggataaac ataacttgag gaatcagaag ctgatgatgg aagcgaaaga 120
aagagcggaa cttctgggag agctgtgtgt aattgttgac tgtcacattc tggtttagtg 180
attcactgtt tctttggctt tgctgcatat ctgactntgc taatttgcatt gttgctgaat 240
ggcgattcaa gtcattgtnt gagaatttat gatgaagagg cacaagcaat gtccattcgc 300
gcgagctgga aaatgctaata gcagttgggg aagccatcct ctctacaata catggacaaa 360
gagatcgctt gaaggatatat cttaactgct gccttcactc atcaaca 407

<210> 19929
<211> 478
<212> DNA
<213> Glycine max

<400> 19929

tctccctttg ctgcagtggg tcctctgtag caggcaaaga tgcttttctt tccatgtaaa 60
tacatgcatg tcattgaacc atcaattaac acacatacat aattgaattg catgatgaaa 120
gattaagaga cattcaagca tggctatccc acggtgcaca tcttgtgggt gtttggagtg 180
aacaagagcc catgataaac gcaggagaca gtcttgcata tactcttgag atgattgttt 240
ttctgcctcc aagacctctc ttccacatcc ctgccagtgc agtgccacac acaacaacaa 300
ttaattaatc aattgcaatc tcaaacactt aaaaccctaa cagagaaaga gcatatgaat 360
atgaaacata cagctacgac gtcagagtca caataaggaa gatggtcctt gccggagaag 420
aactgacca cagagtccaa gatcatccct agcttggctt caagtttcgc catttcta 478

<210> 19930
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19930

agctncgaat gtattattat tctntaagca tgtctgtaac atggtttgtg cagtgccttg 60
 aaacttcaga atgggccata tgctntcgaa gatatgataa agatgggtag gatgctggag 120
 aggagcttct ttttcgagcc cgaccctgct tnttcagtcg ttaacatcca ccacattaat 180
 ggccacacaa tactgatcat gagggtgacg gcagctcttt cagtgactgc atanangtat 240
 gtctattctt aaccatgtgt aagactaaat atcagctgat ggaaaataac cactcatatg 300
 gtcaattgtg a 311

<210> 19931
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19931

cgtcgatcct aagagtaata aaatcaaata gtcacaaca acagtttgaa tcnocctgctt 60
 actactgcg cctgcagtggt ttatatctcc cctttcaaaa gagacaatgt cgtgtttgta 120
 ctgatcactt tgatcacctt tgctgaacca tgagagtta aatgaagcct gtctcgataa 180
 taaagaaaat aattaaaata aatttgctta agtaggagta aatcagagta tatacattgc 240
 aatttttagca atagaaaaga ggaatatgtc tttgaagtaa aaatggtaca agatgtctta 300
 ccacagattt ctaagttcaa atacatggga tcaataatac aagatgatgg aaaaattaat 360
 gaagatgtca cgcaaaggat acaagcggga tggataaaat agagaaagga gtcaacgggt 420
 atttgaatac gcgaagtccc taccaatata anggcaagtt tatcgtacta ctatacg 477

<210> 19932
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19932

agcttgatg ctatccatta tttntgtaag actatgtatt gcattcgaaa tattgtgttt 60
acgtgccttt ttttgtacac tcaaaattct attttgaagt agactaatgt aatgtatcat 120
gccctaagt aactacaaga ctganagttg tgtgttctat tagactggga tatgcgtttg 180
aaaattgttt ttgggattgc tcgagggtc ctttatatgc atgaagattc taggttgagg 240
attattgata gggacttcaa aacaagcaac atttactaa aattctgatt ggagaactat 300
accaaatta cctcctaagg agttgtatct aacttttgc cttantttgt atttgtcaca 360
ctttacataa tcataccaga caaatctctt attttgtcta catttcacat tnnttgtaat 420
gcaatgggta tatgtgtcca taata 445

<210> 19933
<211> 430
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19933

ctaagctnta taagcgcggg tctgngagac ataggtcaag tgttcgcaat attcgtttat 60
tatgttccga gtacatcgga tttggtagca ccatgctctc ctgatttcca gctgggaaat 120
tggcgagtgg aggaacgccc cggtatttac gcgacgagca taatgtaaatt ctttacgggc 180
cttaaagctc tatagtggg cctaggcttt agagtcttct cttctgttaa ggctatgtgc 240
cctttattgc cgattttata atacaaggat ctttcttcat ctgttcctac gtctctaccc 300
atgctcattc atcagcatgt gtacttcttt gtctgatacg acagacccaa tgacgagttc 360
cccgaaggta ctaatacctg ngacccgcct atcaacttct agcaatatat gaatcacag 420
gatgatgaat 430

<210> 19934
<211> 341
<212> DNA
<213> Glycine max
<400> 19934

acttgatatt ttaattttat aaataccgga atgtgcacat gtgcataatt tggtacccca 60
aatgctttga gtatgcatgt attgtaaata tagctaagga agtgcattgt atgtacgtag 120

caaatacacc ttggaagtac atataaataa tttaggtaac ggatgtgcct tgattgtaca 180
 tgggtgcatg tttattagtt ataagaatgt cttgtgcaag tgaacgttcc taaagaagta 240
 tgtgcataag tatgctctaa atttacattg atgtttgtag ttattggagg aggttgatg 300
 ccatatttgt ttttaagagta tcatttcttg gtaaaactaa c 341

<210> 19935
 <211> 325
 <212> DNA
 <213> Glycine max

<400> 19935

tgctgacgag agagtacgac aatgtggata tgatctccat gctattgtaa gcgccacagg 60
 actaggacta tcacttgacg atgatcatca ctttttataa gatatatcta tatcatatac 120
 gagttattaa atctatgagg aagaaaatga taatacttga ctgcgtagta tatgaagatt 180
 aatatatact atgggggagg tgggaagtgt acccatgcc gcaccaggat taatcttagt 240
 tatggaacat ctattgcaag ctattcaaca atataaaaac aaaaatttat tgtacactta 300
 attgacatat gactcgagta ataata 325

<210> 19936
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19936

agcttgagta tttctctctg atagagaaga taaatagctt ggggaagtctt tatectcaag 60
 cttgagtgag ccaccgtagt gtagaagcaa atgactttga tgttttgatg atgatcatga 120
 tgatttgatg catatgatgc aagaatacaa gccacaacat caagatgatc actagtattt 180
 taggaaggga attcctaatt gatttagcaa aagggttggc caagtaattt gagttaaaaa 240
 gtgtttttca agagatttac tctctgggta tcgattacca gaggatgtaa tcaattacca 300
 gtggccaana atgggtttaca acagctacta aatatttgaa ttcaaatttt agactgtgta 360
 atcgattaca ccatattggg aatcgattac cagcagttaa taaa 404

<210> 19937
 <211> 391

<212> DNA
 <213> Glycine max

 <400> 19937

 caggttgagt tctgcttacc acccacagac tgacgggtcaa accgtgcggt ctattcaatc 60
 cttaaaagaa ctcttgagag cctgtgtgtt agagtagacg ggtacttgga atagtttctt 120
 acccttgata gagtttacat acaacaatag ttttctactcc agtataggta tggcacctta 180
 cgaggcattg tatggtagaa gatgtaagac acctctatgt tgggtagatt ccagtgcgag 240
 cattgcctta cgacctgagg tagttcacca taccattgaa aatgtcaagt tgatccaaga 300
 taggatgaca gcagcccaaa gtatgcagaa cagctactat gatcagagaa gagaggatct 360
 tgaatttgct ataagtgatc atgtatttct g 391

<210> 19938
 <211> 348
 <212> DNA
 <213> Glycine max

 <400> 19938

 agcgtgatct tcatcgctcg cgtgtatgat attcactcca caaggtttga agtagaggag 60
 accttcaacc ctataacgca acgtgacgga caaaagtggg cagttaactt gaatggccgt 120
 tattgtcaat gcggaagtta ttctacgctt cactatccat gttcacacat tattgcagct 180
 tgtgggttacg tgagcatgaa ctactaccaa tatatagatg ttgtttacat gaatgagcac 240
 atcttataag catactccgc acagtgggtgg cctcttgggg atgaagcggc aattcctact 300
 tctgatgagg catggacact aatccctgac ccaactaaga ttcattgag 348

<210> 19939
 <211> 444
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19939

 caggtagagt tcttcttacc acccatagac tgagagnctt tcctgcgctc cattcaatcc 60
 ttagaggacc tcttgagagc ctgcgtgtta aaatatgggg gtagctggga tagtttctta 120
 cccttgattc tacctacaac aatagctttc actccaatat aggcattggca ccttacaagg 180

agctgtatgg taagagatgt aagacacctg tatgttgggt aaataccagt gagaacattg 240
tcttaggacc tgaggtgggt cagcaaatca ctggaaaggt caagctaata taagaaagaa 300
tgagaacaac cactgtacg ttgaagagct accatgatac gagacgaatg gaccttgaat 360
tctccgtagg cgaccatgta ttcccgatag tcactacatc cactggggtg gtatggcatt 420
gaagtacaca tagctcacac ctag 444

<210> 19940
<211> 379
<212> DNA
<213> Glycine max

<400> 19940

agcttcttcg ttgtgtcaag cggaagaacc ttcttcacct tctttcgtg gaacttgcg 60
aagaaccatt tcattcttct tccgcaagag cccgcggaag aacaccttct tccgctacaa 120
taccaacgt ccactttcac acgcacggaa gaaggttctt ctgcggaag aaccttcgtc 180
ttcaacctca agcaccaaac atcacctatg tgcgctatcc tacggccatt taagcgattc 240
aactgatag gaggttagaa cactaacctc gatggcgaaa gaagaaggga acgaaagcct 300
atggaggaga agaagggaac caaatgtgaa acgtgctacc aaatgacgaa gaaacgtgct 360
acccaatgaa acgtgctac 379

<210> 19941
<211> 412
<212> DNA
<213> Glycine max

<400> 19941

tagaagagac agttgttgat caataatgcc aaaatacttt attataacat tgggaaacta 60
aaacatctct tatttaaaag aatgcagatc tactatgacg atgattaact acaaaaaatc 120
aagatgaccc caggtaagaa atatatacga tggggagaaa aaaacaacag aaaatatgaa 180
tccttctata ttctacatga aaccgattaa gagtgcttgc agctattagc cgcaaacaac 240
agcaagacta atatatttga tatatagtct atatgcgata gtgaaagtgg gaagagcata 300
ctatagggtta tgtgtatata ctttttgatg aggactatag gttatatata tagaaagaga 360
cagcatgctc gaatatatat tggcctcctt ttatataaag atggtggcca at 412

<210> 19942
 <211> 319
 <212> DNA
 <213> Glycine max

 <400> 19942

 agcttgtcga ttttgccatg tttgggtgag atagacatac ccattctgtt ttatggtttt 60
 tgtgatgatg tttgtgatgt ttatatgctg aaattgctga tggaaatctg ttatagatga 120
 agggtagaac taaccaagg ttagaaagtg agaatgtgac gttatgagtg gaaaaagagt 180
 gagactctga gagttggaag gctaattctg aattctgtgg taaatggatg ttagagtgag 240
 ttaatactag ctagaaatgt catttataac atgtgagaaa ggttaagctg agctatagag 300
 aaaaacaaat gaccaaagt 319

<210> 19943
 <211> 412
 <212> DNA
 <213> Glycine max

 <400> 19943

 ctcaactgaa tttacaacat tccaattgat ttcaaaatgg tgtattttat tacaatgata 60
 tggtaatcga ttaccagtgt gtttgaatgt tgaaattcat attcaattgc gaagagtcac 120
 atcctttcac ataagtgtg tatgtaatcg attacaatga tttggcaatc gattaccagg 180
 gatgtgtttt gaatacaaat cactagatgt aactcttcca atgggttctca agtctctcta 240
 aaggctataa ctcatctatt ggccttcttg acctgacttg acgagtctat ataaccaaga 300
 ccttaacttg cattgtacac acattgatta caatcttata tatcctttga atctctttga 360
 acctcctctt gaatgtcttc ttatcttcct ttgccaaagc tttctaaagt tt 412

<210> 19944
 <211> 374
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19944

 agctttcta at gtataacaaa gtgactctat nttcaggggtg aatcattacg ctgcttgtcc 60
 tgaaatgact ctgaatgatc acaacttgat tgggttttggga gaacacacag accacaaat 120

catctctctg ttaagatcca acaacacttc aggccttcag atttatctta gagatggaaa 180
ctggatgtca gtcccaccag atgacagatc ctttattatt aacgctgggtg atactcttca 240
tgtacaacat aaagcatgct attgacgcat actaatgagt tcaatgaaga aattgtcatt 300
ttctttctcc ttatgactta cgtatctcta tggataagta taaaataata aatatacaaa 360
ctcctctttt aagt 374

<210> 19945
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19945

tgtaataaaa tgttctaact attataggat aaagtgtaaa tctatcttca gcttgagaga 60
tgtgtcagaa ttaccacagt ctggaggaaa ttcagatgaa ctgcaggtaa atgactcgta 120
tggttgcctt tgttctcgta cgaagctctg tacataaaaa tttctattac attatttaca 180
ccagttattg ctaagtcata aagtatctct atcaggaagc tcgtggacca gaaataaatg 240
ggcaagattt tgaaaggcgt aaccacctgc ttcaatttct ggttctcttc cataagtttg 300
gcttccttca cgagcaacat tgccaaacat cattgcagaa naaggttgtg tgaatataga 360
tagatgacaa attgcttata cgctgtatta ttatatacaa canaataaaa tacacattnt 420
taacactctc attttactat atataac 447

<210> 19946
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19946

tctagctttt cgatatccca ttatcttggt tcattttcat tctttcaaag ctgatagtca 60
tatgtcatta ttaattcaat tntgatggaa tatttggtga taggagatgt gtttaggaat 120
taggatgcat tcaaataat attttcatga tttagaccct atttatttca cgattcaaag 180
ttttccaaaa cacgttttta cagacaattt tctcggagtc aaaattttcc acattctcga 240
atccaattat ttatgtacat tctcgaaaaa ttttatgtac attcttgaat ccaattattt 300

atgcacattc tcgaagctga gtcatatctc gaatccaatt atttatgtac attctcgaag 360
ctgagtcata tctc 374

<210> 19947
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19947

tcatgatgaa tcaagattga ttcanagaag ttntgatgat tacatatgtg atgacaaaaa 60
gctcataggt taagaacact tcatgataac aaagatgatg atctcaagaa tcaaagaatg 120
agttcaagat gttcaagatt gaatcaagaa catttcaagg ttcaagagga aatttgattt 180
caagaatcaa gaatcaagat tcaaggttca agcttccaag aatcaagatc aagattcaag 240
actcaagatt caagaatcaa gagaagactt aatcaagata agtatgaaaa agttctttca 300
aaaactgagt agcacatgga tttttctcaa aacctgttta ccaaaggggc gtattaccta 360
accggtaatc agaanatgca gaaccataga cccaggccc atacaccca agcctagtaa 420
ggtcactgta taaa 434

<210> 19948
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19948

agcttttcat ttaccttcac aataaggga aaatgttatt agaactaatt aataaataca 60
aaaaagaact aaaatgacag ccataagtat gtacctttga ttntttcttc aaattataat 120
tatggcgaag tcaatcccc tgcaaagtag cgcttcaata gattcttcat ttagtttaga 180
acaataactca tcaattaccc tacccttagc actaaatgta gactctgaaa ctactgttga 240
tattggaata gctagtatgt caccggccat ctttgataaa accttgatt ttaggctatt 300
gttctccac cactctaaca cactanaata agagttacta gtttcaggaa tataaacatt 360
ctccttaaga taatcctcta attctgagtt cactggaggg gtggcttcat ttgcacgcac 420
aatgttcatt atttg 435

<210> 19949
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19949

cgtgaaataa gagtatcaat atatatgtac acatatactc tgcttgtgtg gaaaaaataa 60
 acaanaaatg aacaagattg ataagccaac atatctagta taaacaaaat caccaccaca 120
 caatttgtat gctaattata agaattcta attcctaagg tacacaccta acaaaggaac 180
 acatcaattc tacaacaaac tcgtatcaga acaccaatta gttcatcaaa cacactcaat 240
 ccgtaattaa acatgaaaac ataattaaac ttcataaaca ccccaaaaata acccaaaaat 300
 tgatcctcta aggatcccta cacatgttca ttctaattcc caagcgtgag taactcatcc 360
 cttacgtcga tgtagtcgct cacatattct ccgctagtaa ttgtggcgct tctggtgctc 420
 tctagagctc ctactctggt tgttct 446

<210> 19950
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19950

agcttgtgat ttatctcatc gagtccccac agtgggtccc atcacaatac tcatcatgta 60
 ttaactcatc gccttaaatg gtcttatagt catgtgattg tacaattcat agatcacaac 120
 tcanagcaca taacatctca atgcatatat atcacatata ttcgggtctca atcacgatga 180
 tataatccca gagtaacatg ctatcacacc tcatgaatca tatgcacttt aattatgaac 240
 tatacaatac acacaattac tcatttggtt tcaaaatcat tttaactcct cgcacctcan 300
 agtgattcaa ctcatcgggt tcccatagtg gatcccatca gaatactcgt cgtgcaaaaa 360
 ctgctgctc ttaaagggtc ttacaattgt gtgattgcac agttcatagt tcacaactca 420
 atatatacaa naatgatgta gctccatgtg 450

<210> 19951
 <211> 450

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19951

 tgagatgagg aagtgtagaa gggtgaaact tcctgctntt attcgttgac cacatagtgg 60
 tacctggaca tatgtcgcgg tggtcaggag accttgtgga cgtcagggtgg ggtgctactg 120
 cccaaaacca agcttgacca atccccgccc aaccgaggca tagtcagtca gtgataacct 180
 gtgatgtacc taaacaggcg agctcctggc agtcaataga taaaaggaac aaagaccaca 240
 aagcaaggag gcttgtgggtg gctggccagc tgtgaatttt gtgtgatata tgggttgtgg 300
 cctctggtaa tcgattacca aggggtgggtg atcgattaca aggcttgaaa atgaagacag 360
 gaggctaaga tgggtctctgg taatcgaata ccacgggggtg taatcgatta ccangcttga 420
 aaacgaggtc aggaagctaa gggagcttct 450

<210> 19952
 <211> 442
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19952

 agcttaactc atccaatcat ggcaagttca acatgctttc aacaaattgc ttcacaaata 60
 actatcatga agcaganaac tagcaaaact acccatcata tctcccanaa ccccatacct 120
 acgaaaatca agagagaaac aagtccaccc aaacctgaaa tttcgaagtc tcacacgtag 180
 acacgcactt cacgactccg aanatgccct cctttcgcga tttggagcag aaatgggcac 240
 caaagggtga agctntgttg gagcttcaat ggagaatgga ggagaacgaa naagcaacgt 300
 gaggaagagg gagagagang ctttgaaaat gtggggctga gtgaggagag agagangttg 360
 cttttggttt anaaannaaa agcttttctt ctnttcttat tattttattta agctatgcc 420
 catgtctnca tttgagtgga gc 442

<210> 19953
 <211> 474
 <212> DNA
 <213> Glycine max

 <400> 19953

tgggtttgagg tacttaccgc ttgaagactg aagaaaacga agaattggact atgaatcttg 60
aagaacggtc gagaatcttc gcgtaattac tcacggaaac gttacggaag cgcctcggct 120
tggattttct tcatggaact aattttcttc agcaatttcg agagagagag aagtgcctaa 180
gggggttgaac ctttttcttc ttactttctc cccctattta tagcaaaata ggggttgtat 240
atcctcaaat aataatcccc ggacaaaatt agggatgac agttgcccct ctttacttac 300
ctctcatcgg agataagagg aaagcaaaga taggacactg atttcgtccg tcctgccctt 360
ttcgtgatg acgactctcg tctctactcc tttctttttt cttctgcaca aaacaaaata 420
catacaaaa ccagaacaac gaataataa cacatatata catatacaca tact 474

<210> 19954
<211> 434
<212> DNA
<213> Glycine max

<400> 19954
gctaactata tgcattttgt aacttggtaa cccagctggc cttgtatcat atatctggta 60
cctgtcgcaa gagtctgtgg tttatggctc tctgctgacc accatacata ccttttgcct 120
ttcatggcgc aacctggaac aatagagcaa cctgaagctt atgttgcaaa catttacaat 180
agacactctc cacctcagct acaaaatcta ccgcagcaga acaattatga cctctccagg 240
gaccattcgt tgttgtgatg cgacccttat ttgaccactt ggaggtgctt ggcacccatc 300
gctatgcgat ttgtgatagt tcctgacatg ccgcgaatct aaagaaacac tgtgcacaaa 360
accgtagat tcccgcagt ggcagatata aagagaagtg gtgtgtactc tcgaagagtt 420
tgcacttacg ggat 434

<210> 19955
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19955
gacctataga tactaagctg nagaggatgc ttaatggagg aaaagaaaga gggagagaaa 60
gttagatgtg ggagcacaaa attgaaggaa gaataaggga gagaattnga actttgagtt 120

gtgtctcaca agactctcat tcatcagtta caacaagtgt tacacatgct tctatttata 180
gactaggtag cttccttgag aagatttctt gagaaaactt ccttgagaag cttctttgag 240
aaaacttgct atagaagcta gagcttagct acacacaccc ctctcataac taagctcacc 300
tccttgagaa gcttccttaa gaagattcct atagaagcta gagcttagct acacacacct 360
ctctaatagc taagctcacc tccttgagat gagaagcgag agcttagcta cacanccta 420
taatagctaa gtcaccccc atgacataat acatganaat acataataaa agt 473

<210> 19956
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19956

caagcttgag tttatttatg agttttcttt gccctttaat tcaactcaat ggaagcaacg 60
aaagaacttg tatctccaat tccatgcgat gatggacacc ttgttaccgt tcttagtatt 120
gatgggggtg gcattcgggg aatcattcca ggaattatac ttggcttcct cgaatcagaa 180
cttcacgtaa tatgctaact atataaatag gtacaaatta aaaaaaaaaat cattcactag 240
agggcttana ctctanagta nataaatttt tatatatact ttgttgtaag attataatta 300
tctttataaa aactntattt attgagggga tttgatccct tccttcacc ctaatgctag 360
tattaaagta actttctagt tacgctgtgc atcaaatata tgctatgac gtatatataa 420
taa 423

<210> 19957
<211> 438
<212> DNA
<213> Glycine max

<400> 19957

tactcaagct ggaactataa ctttgatcgt tctttactcc tctcaaacag aatatcttat 60
ggacaatcaa caacaacttc catatagtaa accaaatacc atgtgattaa cggttagtac 120
atgttcgatt tgctgtttgc acagctccaa atgtccgttc atgcgtttca aaatgataac 180
aaaataaata aataactaca ctgcttgatt gacaaaaaca tgcattacgt tgaacctaac 240
attgtttcaa atacacctta tatatgtcac cgaacgattg ctaatgatga tccaaattta 300

agattataag aaataacttt gtttatagta ccggaaaaat tgagtatgaa actttgacaa 360
 acatattacg aaaataatac tatatagaaa caataaaata atatatatat ttataaatac 420
 tctaacattt atcttcat 438

<210> 19958
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19958

agcttgaagg ttactagat gcattggtta acttggtaac ccagctggcc ttgaatcata 60
 aatcggtagc tgctgcaaga gtctgtggtt tatgctcttc tgctgaccac catacatacc 120
 tttgcccttc catgcagcaa cctggaacaa ttgagcagcc tgaagcttat gttgcaaaca 180
 ttacaatag acctcctcaa cctcagcaac aaaatcaacc acagcagaac aattatgacc 240
 tctccagggg accatccggt gttgggatgc gaccctcatt ngaccacttc gaggtacttg 300
 gcacccatcg ttaggcaatt tgtgaagttc catgacgtgc cggaagtoga aagaaagcat 360
 tgtagcacga tccgtgaagt tccgcgacat gc 392

<210> 19959
 <211> 476
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19959

gggagaggat gcttcaatgg agganaagan agagggagag anagatagag ggggtgttcac 60
 aaaattgaag gaagaaaaag ggagagaatt tgaactttga gttgtgtctc acaagactct 120
 cattcatcag ttacaacaag tggtacacat gcttctatct atagactagg tagcttcctt 180
 gagaagattt cttgagaaaa cttccttgag aagcttcttt gagaaaactt cctatagaag 240
 ctagagctta gctacacaca cccctctcat aactaagctc acctccttga gaagcttcct 300
 taagaagatt cctatagaag ctagagctta gctacacaca cctctctaata agctaagctc 360
 acctccttga gatgagaagc gagagcttag ctacacaccc ctataatagc taagctcacc 420
 cncatgacaa aatacatgaa aatacaaaaa anaagtcctt actacaatga ctactc 476

<210> 19960
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19960

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agcttgatat cttatataaa taatatattc tcgatcaaaa cacatggcgt taccttatac 60
aaaagacata atattaaaaa ttcaagcaca tgtaataacg taaaataatg tgggaaaata 120
catatttaca actcacctgg tcgatcggtta gtttcttgaa actgtaaaat gagatgacct 180
ataagaagct agacattaga cgtgacactg gttgagtcag aagtgtatat ctggccctat 240
ttattataat tnttatctgc ccccatga aatnttaatg gtatttaggt accgtagata 300
tacatattac ctgtaatata tatgcaatct ctcaatactt atatngctgt tattaacca 360
tttctttgca gatttgaaag atataactct cttccacca ct 402
```

<210> 19961
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19961

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tgaccttntc ccatggactc aaggttcaac gcaacaggct tatcttctt gngtgaatca 60
aatgccgtct acagtatgat catcactcta tattaatttc aggtaaagaa aaatgggtgcc 120
atttggatcg cataaacagc aactacctta taccaagtga gtgtttgatt gcaagtattc 180
cctagtggac tcattgaat agaactgtta ctttttctt cgtatatttc taattgctct 240
cccagtaatc caacctgtaa taacgtacgt acatgacacc aatgtcctac tgtccaatta 300
aatctataca acctaacaga tttgcagtaa ttaaattgtc ttgagaataa tatgcgttag 360
ttocacgagg aatacacata tataatatat aattatatat aaactcatca taatacaaga 420
gcaaagcgga cctgatatcc ncatgtagaa ttggtcatat cgtaggactc 470
```

<210> 19962
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19962

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agcttcatgc tgtttaattg ctccagggtg ctgcatggaa gggcaaagggt ctgtatgggtg 60
gtcagcagag gagcaciaaac caciaaacct tgcgacaggt acagatttct gattcaaggc 120
cagctggggt accaagttaa ccaatgcac cagtttgcct tcaagcttct tagtttcaga 180
tgatgcagat gggttttag ctacctcatg cactcctcta atgactatgg catcatttct 240
ggcgctaaac tgctgggagt tggaggccat cttctcaatt aaatttctgg cttcagcagg 300
agtcatgtct ccaagggctc caccactggc agcatctatc atacttctct ccatattact 360
gagtccttca taaaaatatt ggagaagaag ctgttctgaa atctgatggg gngggcaact 420
ggcacatagt ttc 433
```

<210> 19963
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19963

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tgttccagtg gcaaacaaaa ggctcaggat tcagcaatgt gtttatatag gagcaggctg 60
ataaactntt agaagcaacc aatttgtggg actcagagca gagagatatc tgttgggttt 120
caccaataga ggaagatggt gctatgtggc tttttgtctc gactacctct gaccttgatt 180
cttgccataa tcatgtttca acttcaagta gttatgatat acatacagct agaagttgga 240
ggcttgctct tttgatgaaa aatagcataa tttttggaag tcccttggt ctaaggtgct 300
atgaagtttt ttctgaattt gaatatagtt cgtcatgtgt tgcttaattc tgtaagatc 360
tttactgggt ttacttcac atctagattt aattgggaag attgtaagga accattagtt 420
atatatcatt ttgagtgata tggaaggata taac 454
```

<210> 19964
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19964

agctttcaca ttctcgtatc ttctcatggg acttctattt ggtgtatgta caacactctt 60
gctgcatatt atctcgttct tttatgcagg tgtgactgat acatctttta ttttcctata 120
acttctttct atttttgggtt gtttgaataa ccggttaaacc ccggtgaacc acccgtcctc 180
atnccgattac ccagtttaat tcttggtttta ctgggttttag tctgggttttc tgggaggggtg 240
gttcaatggt gctattggat tggatgcctg gttcccgggt ggaccagttg aaccgggtcga 300
tccgatcttg ttttgaaaac c 321

<210> 19965
<211> 552
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19965

agagacantt tgataccatg cgatgcgact gacgcgacac tatacactac tcnggctagg 60
aaggcactct gtgagcgtac agaacagggga gcttacctat agagtgcagg agctcgagat 120
gcagagctga ctgatgaggt gcatatgaag aatgagctga acacttgagt catatcggag 180
acactctcat ctactgacg ttacaaacac cgcgatgggt catcgcatga taggtgatag 240
acggacgtat catcctagat aatatatctg gccatcactc tgacgagact catggactac 300
aattctggct atagcaacta aaccttaaat tccctgacca ctgtcacatc taagctcaca 360
tcattgagac tgggtccatga catgagccct atcctaatta gaagctactt acacacaccg 420
ttgtaatggg tcatgtcacc ttcttgagat gataatcggg agcttatcct cgcacgcaca 480
taatggctat actgaccccc atggccctat acatcaaadc tcgtagtata agtaccgtac 540
tcgatgactg ct 552

<210> 19966
<211> 424
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19966

agctttgaag tttgacttgg tccttcagtt agagggtcat ccatcatgta agtagcccca 60
aaaccatgaa tggacccctt atgaggcaaa acagttttca tagcagttgg gtgttcccc 120

gttatgttgt tatggaaata gaagtggagt tgggtgagtt tttcttccac gggttctgtg 180
gatggatact gttgtgcaaa cacttcacta gttgcgggta aggaacttga catgataaca 240
atgagatgga agccaaagag gagatacaca actgaagcca tcttggtact acttttcggc 300
atgttagcca atggttgcca acaactatat atataggcag aagatatatg taccttgtgg 360
aatactntat taaaaatgat tatgtgtaag ttattttaag taaaaatggg attaaataat 420
ccat 424

<210> 19967
<211> 440
<212> DNA
<213> Glycine max

<400> 19967
tgtatgatgt ttgtttggct acataatacc taatatgcgg tgatctctct atctccaaat 60
gttttgggct ttctactttt cttgaagaat ataacttgag tccacagtgt ttcacgaacc 120
atgttctttt ggaaaaattg tatttattca tctgtcttgg tgtaggtgaa cttttgttgg 180
taccacaatg tttttcataa tataattagt atattcaatg gatacacoga gcttaatccg 240
gtacattata gaattttcta tactaacata ttgtccaaga ctaagttcac agtatatatt 300
tataaaacac cgcaaagtta ccgagatgt gaccacccat gtgaactgta ctgaaggctct 360
tcattgttaa taaatgattc cattgcttgc tctaatacagc accattacac tagtttgtct 420
gtgatctgtt gatattctata 440

<210> 19968
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19968
agcttcgatt tctatgccta agtcttgttg ttggcacttt actctagcct ctacaattgt 60
ccacacactc aagatggcag ccatatgtgc tcaaattcgt tccactaacc aagttgtaca 120
aaaccacaca caaatgccat tgaggcattt cactgaacac ttggtgggcg catgtttaga 180
catgaataaa tgaggaatgg cggcaatgct acatgcccat tcatatcaga acccaagata 240
tgccatgggt cattctctac aaccccccaa tttaaataac aactatggat atgacataca 300

ttgtctcatg gattttgcan acatagacaa ttaaagcact, aaaacacat 349

<210> 19969
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19969

agcttctaca tatgggactg ngaacactct aagggccctt gtcctaattg tataaaatat 60
 atgttcatca tggatttatg ggatgtaatg aaaaaatatt ttttggcatt tcttgatgaa 120
 ttacacataa atgggagact agataaagtg gtcagtagat cttttattgt tctgttacct 180
 gaaaaaagaa aacctaattg ctatggggga taatatatcc ctgatagggt gtttgtataa 240
 aatgttggca cagatgtttg ctaataagtt aaaatgggtt attgatgatg ttatttccac 300
 aaccaatct acttttatat cagggaggaa aatgctggat cgggtactca ttgctattga 360
 ttggttcatg 370

<210> 19970
 <211> 355
 <212> DNA
 <213> Glycine max
 <400> 19970

tcaagcttgt ccttggttta gacatgattg atacatgatt tgggacttgt aggattcaat 60
 ttgggcaaaa ttggatgagg gaaagtgtga tttcgaaaat ctgcacttta tgcagaattt 120
 tgctgtcaaa taggtgcaac agaatttttg ctttgtgcag aaagtgttgt gtaattgctg 180
 gctgtggaaa gagtagtata gattgtgttc tggacgtttt ctagcagatt ccaacgggtca 240
 taatgtagat ttatgtgcta gagacttcca gtaaaatttt cgagtcgata caactgttaa 300
 cgaattggaa cgaagagaat attactggcg tatttgaatg ttgaaagctg tgata 355

<210> 19971
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19971

tctctcgggtgc cattcctgcg aaggcaaaca tttgtatagt tagtttttagt gggacattac 60
tcttaaagca aaaatggcat gtaacctcct ccataaata caaacatcaa tgtaaattta 120
gagcaagctt atgcgcatat ttccttaca acgttctctt gcacaagaca tttaaccgaa 180
aaaatgcacc catatacaat caaggcagct tcgttaccta gattatttac acgtacctcc 240
aagatgtatt tgttacttac atcacacaca tctctttggc taaattcaca tacatgcata 300
ctcaaagcan tttgnggtac caaaaattgc acatgtgcac atcttggcat ttctaatacc 360
tattcatacg caaacttcat gatgaatctt gactaccac acaa 404

<210> 19972
<211> 435
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19972

agcttacaac tcatataatg tcacatcaag aattaatgac acacttattc acatccaaaa 60
ctcattcaca atttcacatc tcataatggt acaatccatc atcacaagtt ttcacgtatc 120
tcacaattca acacctattc tactntgcac ttttactcaa tctcaatgac aatattataa 180
tctcaaggca acatattatt ccacaattca tcacatattt cattttataag cattgctcat 240
gaattataca ataccacga cctaactc gtatttcaaa cacgtttaac atattgcgct 300
ataatttaac actggttcct gaataggaaa cctacactnt ctcttanaca ttgtgcatca 360
naagttnttc tcaagataac actggtcaga atattgtata attcatagct cacaatataa 420
ttattgtcac ataaa 435

<210> 19973
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19973

tcaagaatca agatcaagat caagattcan aattcaagat tcattattca agagaagact 60
taatcaagat aagtatgaaa ggacttttca aaaactgagt agcacatgga tttttcacia 120
aacatgttta ccaaagagtt tttactctct ggtaatcgat taccagatta ttgtaattga 180

ttaccaatag caaaatggat ttgaaaaagt tttcaaactg aattttacaac gttccaattg 240
 atttcaaaaa gttttaattg attacaatgt tttggtaatc gattaccagt gcctttgaac 300
 gttgaaattc aaattcaaat gtgaagagtc acatcctttc acataaaaagc cttgtgtaat 360
 cgattacact gatttggtta ttgattacca gtgaattgtt tctgaataaa tcanaatatg 420
 taactcttca aa 432

<210> 19974
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19974

agcttatcca ttctacccat tgaaacgata gatcctgaag aanatggggg gagggggggtt 60
 agcattatag aatagaataa cagaattact ttgatttaaa tcctggcaac cagaagatag 120
 cattacctgc caaattggca attcctatgc agacatttgc aatgtctgat ggcactccag 180
 cactttttaa aacagttgaa gagaaataaa acacagcatt tataccagat agctgttgta 240
 aagcanatag ggttgatcca ataaaaacaa ctgctaaacg aacttggtgaa taaaaaataa 300
 cttttgga cctaaggaaa ccagtgacca gataacaaca atggcaaata cactcacaag 360
 tcacaactat ccagagaca aaccaggaaa aatgcatacc tttagaatga cgaccatgaa 420
 ngcaattcga cagcttcaca ctatcacta 449

<210> 19975
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19975

tgttgcta gctggacaga tcctcttang aaacctggta aattgtgaga gtggagattt 60
 cttatatgga ctgtatgttc attntttgtt gtggactctc ttcaataact aagctttatt 120
 acatgctcaa attcatgtag ttgtggactc aataattgct tatagcatga gaatgatgag 180
 gagattgaat aactatttga tgattcacc cgtaccttcg ttaatttttc actttgttgc 240
 aacaacaaaa ttaaaaaaaaa aaaaaaaaaa agagcttatc aactcctttc acacttcaca 300

ggaaaaagag cctgaaactt gtgtaccaca aacaagttct agtcattccc aagttttcat 360
 tgttatttgt tagtcctcgt acacaaaact tgaattcttt gaacttgttt gaacaaatac 420
 ttattagtac ttanatttcc tccatttcta aatat 455

<210> 19976
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19976

agctnntgcy ttcgatttct tagtgcaatt ctccattctc aacctttttc ggagcccat 60
 ggattgagtt ttcgttcacg cgtactccac cttcgagtat ggagccatgc gtagtgattg 120
 cttagttcaa ttctccattc tcaaccctt tttcgcagcc ccatgaattg cgatttggtt 180
 catgtgtcct ccaccttcga gtctggagcc atgcgtagtg attgcttagt gcaattctcc 240
 attctccacc ctttgtcgga gcccatgaat tgcgtattcg ttcattgtgc ctccaccttc 300
 gagtttgaag ctctgcgtag tgatttctta gtgcaattct ccattctcaa gctttatcgg 360
 agcccatga attgagttat cgttcatgcc tctccacct tcgagttt 408

<210> 19977
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19977

ntacagcgga tgccactcta ctccaaattc ttgaaggata tgttttcaat gaaacataag 60
 tatattcacc aagaaaacat tatagtggaa ggacattgta gtcttgatg tcaaaagatc 120
 cttccacca agcataaaga ccttgggagt ataactattt cttgttcaat tggagaagtc 180
 actatgggaa aagctcttat tgacctgnga gccagtataa atttaattgt gctctccatg 240
 tgtagaatgt tgggagcgtt agagatcatg ccactagaa tgactctaca attggctgac 300
 cgctccatta ccagaccata tggagtaatt gcagatgtgc tggtaaagg gaaacatctc 360
 atcttcccg tagacttcgt ggtattggat atttgtgaat atactgacat tctgttaata 420
 ttggga 426

<210> 19978
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19978

agcttgcnca cttgtcttat tctatatgaa gggctctgat ttcttgagta gttttagtaa 60
 tggctttccc tttttggtga gctttgggaa gaacctggac agacatgcta gcctttcatt 120
 cagcttcagc ttctacactt cttggatggt ggttgggttg cgcgatgatca gtatggtagt 180
 gcatttggtg nggttggctt caatccccta gtgagtgatc atgaagtcga ggaacatgcc 240
 tctgtctacc caaacagtac atttatcatg gttgaggcac atgtcatatt agtgaagttt 300
 ccacaagact tcttccaggt cagtcacatg ttgggctatg ctccgagaca tgtctatgat 360
 gtcgtgcaca tatacc 376

<210> 19979
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 19979

ctgaacatcg gtaaaccttt catgtaagct tcttatggag ttaatatctt ccattatgca 60
 tgacagcccc ctatccattg aatgtctcag gtgttttact gctcttttaa ctgcaaagat 120
 tatttatatt acagtaggac aagtaccata ggcaactgct gatacatagc ataataata 180
 cctgtaagaa cagaaaaaac aaccgcacat gaagccacat ccctacccta caagacacgc 240
 attaactaaa aactagaggc attgttggaa tcccatgtgc tggccttcat aagtctatcc 300
 cataacaatc tccaggcata agataaagct ctaggaggga ttttaatctc ccatagttga 360
 tggaagccca ggtgctggcc ttcataaagc tgctcagctt taatgac 407

<210> 19980
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19980

agctttgaag aaacaattac aagctatcta cgtgaattat tctttcatac tttntgtaaa 60
tactttttaa gatacaaagc tctcaaaaca ccttgtatac tttgagagaa aacactaaaa 120
gtggtgagtg ttatatctat ttgtaagatg attatatatt ttagttagtg tgaaaacttc 180
taacaaatct tgttgatttg tttagagcca gatgtggcct ggtaggacaa ggagtactgg 240
gtttttaa tc aagggtggg gtagagcttg caagtgaag agtcagaagt ggcaataagt 300
aatacttgta actntgataa gttagtggaa acttgggtgg tgctaagaat tggacttagt 360
ctcgagggtg agacaaacta gtataaattc cttgtgtggt ttttgttgtt aactaattca 420
taccctaatt tc 432

<210> 19981
<211> 472
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19981

ctcctttctg ggttgatgac ccagtatggg taggtgaccc agaatatgtt gtangttgcc 60
ttttggttat tggctctggt agagccagta gaacctcttt tccttttgta ctggatcttc 120
ctcctctgcc ggaggaacta gacaccatag gaggcacgga gaattttctg taaaaattca 180
cgggtgagat agtcaggtag agagttggaa gagcccttga tatattctat attaaaatca 240
aagacactta aaattgcttg ccatcttgca aaaatctgtt ttgaggcaag gttttttaca 300
tccttctgta naatgtcttt ggctgatttg cagtcaaccc ttactaaaaa tttttgattt 360
aataaatcag attgaaattt ggaaatgcac aaaacaattg ctaaaacttc ttttttgaca 420
gttgaatact ttaattgtgc aggattccag tgttntgaag tatatgcaat ga 472

<210> 19982
<211> 420
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19982

agctntgact tatccaatga agaaagggtgg gccatggtac tgttttcttc tttatntat 60
ctattttttt agggggagtt tgatttggtt tgaaagaagg agtaagataa gaagtgagag 120

atgattcact ctgattgcc a tttgtttgag agaggtgcta gagaattggt cgcactatta 180
aatgggacaa agggaaatcc ttggacattt tatcatagtc acttggtgag ttntaatcta 240
acacactcct acattttata aaacatgtat taatgatggc tcaaagttac gtacaagtct 300
gtggctgggt gctatttaat cggttgataa ctctaaagtg cttttgacta cttacaataa 360
tttaaggata ctcccatacc tttgtgaata attactcatt tgacattggt tacacatgac 420

<210> 19983
<211> 435
<212> DNA
<213> Glycine max

<400> 19983

ggtagtcatt ataagagaaa gaacatgtga ttagaattat gaatgttatg ctagtttttt 60
gtcagattga ttgtgaagaa atgcattaat tgtaacccgg tgagagtgtg atccttattt 120
ttgagagaaa acggctatca ttaagtactg acttttgcac gaatctctta attatggact 180
gaatgcatga atttgaggat gatgaaggcc atgttttgat tgtgatagcc acttagccaa 240
aaagctgacc atgtgcatga atgatttatc ccttgacccc agttttgagc tgaatgaatg 300
cttgattgat tgaaccttga gcctatacag ttttatcttc tgctactttg tcttacgttg 360
taggagagca tcatccacag aaaagcttag ttcaaggcag atttgtccca aatttgggga 420
gttatatgtc aaaat 435

<210> 19984
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19984

agccctatan atttttatat ggcttgaaac aagcactgag gcagtgggtac aagaagttaa 60
atgagtttat cagcaactca ggattcaaca gatgtgacat gaaccattgc tgctatgtta 120
agaaatatac taatagttat gttatcctta tcgtgtatgt tgatgacatg ttgattgcag 180
gatctagtat gacagaaatt aacaggttga agcaacagtt ggcagaaaac tttgaaatga 240
aggatcttgg tccagctaaa caaatccttg gtatgagaat tcttagaaac agatcagaaa 300

gaatttttgaa gttgtctcat gagaaatata tacacaaagt tgcttgacaa gttttacctt 360
gaagattcta agaccaggaa tacccttttg ggatctcatt agaagtttca aag 413

<210> 19985
<211> 399
<212> DNA
<213> Glycine max

<400> 19985

cggcaaccgt ttggtactag aaaacctact tccatgcttt atttgtaaaa acatcttata 60
taatcatgca tacaagtac aacttattca tattctctc tctaattttt ctctggcata 120
aaaagcgaac aataaattca aaagcatata aggagataat atgatatgta taaaaatatg 180
cccccttttct tcccagagac aatttcatct cattttataa caacaaagtt gcttagtact 240
aaatattatg atcacttttg tgtgactact cagggaaatca ccacatatga ttacatcata 300
gccttgaggg agcacgagca ggagcaacaa ggcatggag gtcagcagag tccccatatg 360
tcgcctgtta gtcctcttac tggaatgagc agtgcaagc 399

<210> 19986
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19986

agcttatatt ttatctcact atccggcgtg aatgggggtta ctgctttaca tggaaaaggg 60
gggggttttag aggctcagtt ttgtgttgga catattgaca atgatgatgc aaatgagggtt 120
tcaccagctt ctaaaaggaa aaaagtcaca gctaaccctaa atttcacaaa atgtcaatcg 180
gaattgagtg ctgtgattgt gccttccacc acatctgaag ctcttatgag tttcagtgat 240
aaccaagaac atcagagaga agttgctttt gaaagcatgg gtatgattat tctgtctagt 300
gctcagtcac tgccttattc agaggatatt actaanatgc ctgagaatgt tttggctggn 360
ggatcttttg agtctattga tgcanataag gaaaccatga gttctgagca tttggaattg 420
ggcattcgga tatag 435

<210> 19987
<211> 453

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19987

 tctcgctctt gcactttcaa gcacgattgt ctgtctccaa tttgttatgg ctttcacgca 60
 ccttccatag tcatcttgca nacacatgct cgtccctggt atgtttttgt tcatatggaa 120
 gactcaaata tacattgcac tctatccaag gcttctcca cgatctcttt acactcttcc 180
 agccatggag aaactcttca cctctcttaa taatgacttt ctcattaagg acctccttat 240
 tctcctaggt tttatatatc attactcctt catatgcttc cataacaaca tggccatact 300
 ttgttgattt gctatcaacc ttgaaagcat gttgaagaac agtngattac atgaatctgc 360
 ttgaaggatc gagccaacga taagcaaggc ctatagaaaa tattaacagt cgattacttt 420
 aaatatatat gttggactgt ttgctaacat ata 453

<210> 19988
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19988

 agcttctca tcttttgttg gcagtgaac ctaccattt tttagtcatg cacattgagg 60
 gatgcaatat ctgtggtgag gcccatgagt caagcatgtg catgggtccaa gatgatgtat 120
 ccaaagaagt caactgtatg atcattccac accatcaagg gttccatcaa ggacgacctc 180
 caggatacaa tcagggggga aaattctctc agggccaagg ttggagatcc caccgcggga 240
 atagcttcaa caaaaatcat ggagtttcat ctaatcagcc tcccaatcaa tggcctgatt 300
 tatatgagat aaccactaag ctagaagaca ctctgaatca gtttatgtag gtttctctat 360
 canatcataa gagcactgag tctgccatca gaaatct 397

<210> 19989
 <211> 439
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19989

tcaggagacg ctgaatcaat tcatgcagat attcatgtcc aactatatga tcatggagtc 60
ctccatcaag aacctggaga tacaagtaag acaattagcc aaacaaatgg ctgatagacc 120
caccagcagc tntggagcca acatagagaa gaacctatag gaggaacgca ggggggtggt 180
gactagaagc cagatgagag cgcaaggaga aaaagagaaa gctaaaggag aatagtctga 240
ggaaggaatg ggcagacaaa gaagaagaga atgaggaaga agagaagaag gaaaaagaga 300
cagattaata gaagaaggtc ttaacctcta agaccaaag ccagctagcc tgagaggcta 360
tgaaagaaga gccactatcc tctctaaagg agcccctata tcctttagta ccatcaaaga 420
agaataagca tcactactt 439

<210> 19990
<211> 426
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19990

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tattatattt taaaagcgaa tgagaattaa aatcaattat actactttta aaatatttta 120
tttttttaaa gattagtatt aattattaat ttattagacc atataaattc tgattgtttt 180
ctcanatatc acgtaggccg agacatcaaa agacctgtgt ttgaatgaaa gacaactctt 240
atacaagccc tcgcacaggc accaattagt gctacccttt ntatgggaca caatgggaat 300
tttctgagt gacgcaagta attctattca gttcacttct agaatggaag atatgcagct 360
cttaattgtg cgtttcatat tataggaagt acatatcaag acgccaaacc cgatatcact 420
aattaa 426

<210> 19991
<211> 463
<212> DNA
<213> Glycine max
<400> 19991

tactgttaga acttcttcag atccaatctc atgaccacca tagacaaaaa gtttcccccc 60
gctattattg gcacaccaat gtagaacaat aataggagat cttctatcag ctgatgataa 120
ttgaagcttg acaacattgt ttgacaatct ttcaacttgt tggtcagggg gaaagtcagc 180

agttgacaaa tcccaaaaaca ttatatcacc atctacataa cccacaacaa ccaccgatcc 240
atcattagat gcccaagata cagagcttat ctccttatcc tcctcttcat ggtctaattt 300
atcatcagaa agctgaaccc tagagtcatt tggataacta gtcactatct ttctcttcaa 360
tttgatgtcc ttgtggcctc taatgagaac aattcgatct tcagaagcat cccagagtac 420
catcaaacca ttttcgtatg caattagcag tctgcaaaat gac 463

<210> 19992
<211> 427
<212> DNA
<213> Glycine max

<400> 19992

taaaccataa tacaccatct tcaacccatg caaaaccact ataccgtagt gcatacagca 60
taagcttaaa gaatacagac aacacaaata tcacgtgaa tgatgagaag aatatccaaa 120
caaccagccc tctcttgcca gttgatgggt ctttaatat tgttgaatcc ggctagcttc 180
aaccaattct aacaccgacc acgcaaccac aaagtgcac ctttggttgt actcaaaaca 240
gggagacttg gcacatgtga acctctggaa caagtttcat tcagcacttc tggttttgct 300
gatagcatgt gccacaaca aggggattga tataccatag cctaagaaat ggagtactgg 360
gttcatctca tatagcttta gaagagttct gcaattctgt aatggaatag tagtaaatca 420
caaaatg 427

<210> 19993
<211> 449
<212> DNA
<213> Glycine max

<400> 19993

agctttcaac atgagtcttc acatataacc atcatgaagc agagaactaa caaaactacc 60
cttcatatct cccaaaaccc catacccacg aaatttaaga gagaaagaag tccaccata 120
cctgaatttt cgaagtccca ctgtagcca cgcacttcac gacccgaat atgccctcct 180
ttcgcgattt ggagcagaaa tgatggccaa aggttgagc tttgtgtgga tcttcaatgg 240
agaatgaaga agaagagaat ggcaacgtga gggagagaga gagctgtctg aaattttgtg 300
gogctgagtg aagagagaga gagttgctcc ttgggtttta atgacagggt cttctctatt 360

tttctattat tctattcaag ctatgccaca tgtcttcatt tgagtggagc aagaatgcc 420
actttccctt ctttaattgtg actcatact 449

<210> 19994
<211> 465
<212> DNA
<213> Glycine max

<400> 19994

tctacttatg tggcagggcg ggcttccttc accttcttgt ctctacgct aactttgacc 60
actgttcttc cttcccgcga tgcttctttt cacgtccgcc tgagtgggct tatagcctaa 120
accatacttc ccacgatttc cttgggtatt tatcaggcta gttatgcgcg cgttgcttct 180
gcctaaacct atcctgagtt cataaccgtt cccaacata actcggggcca tcattaccgc 240
tgcacggac atacaaggct gcccatagag ggagtccacg gatgaaatgc tgaccacctc 300
gaaagactgg agagcagttt ctaacgattc ttccgcggct tccacattag gcatggagga 360
tgggcagctc accaagatat ttactcgtc tgcacgatga ccaagtgcc ctccactacg 420
aatttcaact tttggggagt gtataaggca caactccac tgaat 465

<210> 19995
<211> 324
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19995

ttgcatgcaa gctngctgnc tacagtttgt tgatgcacct atatcactat gggtagtggc 60
ggagactgca gttgtttcgc ccatgacaat ggccaaccat gcatgcatac atagttgctc 120
ctgtcacgct agacctagcc tgctacccta cctttgcgcc taccctgctg caacgccaaa 180
cctatcctgc tcccctcccc ctgcgtgcct acagtgcctg aggtgtatca tcattggcac 240
tgggcatacc ctccccacgt tagggctgac ctatatngcc agttgcagtg gcaaacatca 300
ctggctatct cgccagcgat agtg 324

<210> 19996
<211> 576
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19996

agcctcgctcg tacntcantt ccgaagacac cgcacgggtac gcatccgctc actacatata 60
annaaannan naagagggnt ttgatgcct cctagacnga ccnatanata ctaaagccgg 120
aacaaataga ccgacaagtc gaacaccaca agcaagggct gttctagtat tgacgacgag 180
acggagcctg cgaacacgtc gccagacaga agcggcaacc gctagaagat caccttcagc 240
agaacgcact ctatcacacg cagcgaccgg acattcggag cgcacgcaac tagaaagacc 300
aacgctacac aggcacgcca aacaacacct ctctttcaat aacaaccacg cgcgaccag 360
agcgagcgac ctacaacccg aagagcacgt ccaaccaccc gaagacttaa cgagcagatg 420
acaatgagct gccgcaagct tgacctgatc atccgagatc gatacgaaca atgaccacac 480
acacccatgg gagacaatgc agcaaagact acgcatactc gtgacaacag gcacataccg 540
agaccctgga cagaggaagt gaacggacac cacacg 576

<210> 19997

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19997

gccggaggta ttaattgata ttcaccanca naatgggcac actgaaggaa tgattggcac 60
acctgataag aaatagaatg ataactaaac ttactgaata tacaagcagt ttgagaacaa 120
caacttacta ctaaattggag taactggaat gaatgtgaga tgtagaaacc ttcaaagatg 180
tgacacacca tgagactttt gtgacagatt atgcagacct cacaccaat gggattata 240
gaattattcc caaagatata gacaccaagg catgacaaaa tctattatac tgatcacaat 300
tccctgtcat accgatacag tatgaacaat acggacagac accggaacca tttataagct 360
taaagta 367

<210> 19998

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 19998

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agcttaataa atttcctatt gatccacatt gtgtatgtat gattgcatgg aatgagatga 60
aatgcaaaat tgggaattga ttgttagttg tttggatgaa caaacactta cctgaaacac 120
ttgtgtgctt gagataaatg ttggctttgt gaggaagaa gcttagttaa ccttcctgga 180
agcttgacat acttgctaac cattttcatc tctaaagagt attattgcat gcttctatct 240
tgagattatg acaaagtcta atttggggga gatgatgatc tgtgaaatgt atgcagtcac 300
ctcagatatt gtggttggtta ctttctgaac aggtcattaa tctaacttag catagttagc 360
tctcttttgc ttnggacaag cacaactcta aatttggggg agtttgataa ttgatgtaca 420
taagtagatt atgttattaa aa 442
```

<210> 19999
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19999

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tctccctatg acaaccacc attcatcttt gctggagaaa aagtcaatat ctaaaggatg 60
catgtgggta tacaccaagt ttggatcatga ggggtcattg tagaaggacc taaaaatcca 120
atatttgata gtgcacgccc acacttncta caacatacta cttagtagac catctntgaa 180
tgtgatcggn gctatagtgt tcaccccat ttggctatga nattcccccc aaataaagga 240
tccatcataa cagtccacaa cgaccagagg aacgttaggg aaggttacat ggtaagcctc 300
aagattaacc gtttggtaaa aagtgagtcg tgtcgaactg tgcactatgt agaaattatg 360
gtagggacct gttatgactt ttggcaagcg taccaattgt cactatagat tntacatnta 420
taaaagagtt cgtctccaca gggactcgag ttacttaatt cattcggata aagg 474
```

<210> 20000
<211> 334
<212> DNA
<213> Glycine max

<400> 20000

```
agcttgatca ttacaattat ctaatcattc caatccactc aaatcattca attgctcatt 60
```

caaatcatatc tcaaacactc atttcataact aaaaaatcca ctgcatatca ttgtcaatca 120
 attcaatggtt caaacacgct cttggtagaa gcaaacaact catagtgtg aaattttaa 180
 aattgaaatt taaaagaact gaaatataaa acctgaaatt aatatgacta aacataaatc 240
 ataaaatatc taagaataaa ctaaaattct caagatgcat aaattttaa gtctgtctca 300
 tcttgtggct gatccaatgc tggagctgct gatg 334

<210> 20001
 <211> 463
 <212> DNA
 <213> Glycine max

<400> 20001

ctataatact aagctcgtaa agttctcctt ctttgtttcc tgtatacaca caagatccac 60
 tcttatgctt taggttgagc tttctaataag cagcccattht aatccctctg ccaggtctc 120
 tgcaattata ggagagtatt atcatgatta ataatacatg aagttcatga agttctcccc 180
 aattgcattt gtcattggtat tgagaagtca caacatcacc aaactgtttt ccagttgcca 240
 tttttgaaag ttgggatccc ccttttctgg ctgtttgggg tcacccgaga ataaggtaca 300
 atggtgtgta taaatatggg tacaagactg attctgtcac taatttagag ctaaaatcag 360
 gaacccaaat ccctataatt gttgaactaa gaaggaaaga aatatagcac atctattata 420
 gctgacaatc agatcgaatg attttgctaa ttctcgaatc atc 463

<210> 20002
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20002

agtgtttcat tctttagttg ttttaaaaac tgaaattcgt atggcgcgct tagcatgccc 60
 atgtgacgtt tgagttttaa acccaagcgc ttagcctagc ctcacgctaa gcccaacttg 120
 aagtggtaaa gtccagttag catctggggc ttagcgcagc aggtgtgact tagcgctttc 180
 tgcaacacaa aattatctgc aatatgctct tagcctgata tgtgaggctt agcgtaccat 240
 caagcttcaa cttacagaga gtagttcatg cttaacgcaa caggcgcgct aagcgcactt 300
 ccatgaattc aaaacttgta agagattggc acttagcgcct tcttgtcccg ctaagcccag 360

cttaagaact catttacaaa atggatctan ggcttatcgt aggatagcgc gcttagcgt 420
gctataataa a 431

<210> 20003
<211> 452
<212> DNA
<213> Glycine max

<400> 20003

tcgagaattg cccaaactcc ctctccattt ctgatttagg cttttattgt ggccttggtg 60
gtgcttggtg gcttagcgca actctggctc gcttagtgcg cattagtga tttcggctta 120
gcgctcgtct tttcgttag cgaatggact taaatggtgc acttaacgag attagccctt 180
gctcagcgaa catgcatagc tcattcttct ttcagattct tcctcgcgct cagccaaagg 240
agtgttgac tcagtggatg gctcgctaag ccaaaagatt ggcttagcga gcggatgata 300
attagcattt cacagacttg cctaattaac ctgaaattga gaggaatga ttgttaaaca 360
cacaaaatgg gagtactaag tatttattac ctatctttaa caaaaagtaa ttacaacact 420
acaaaataac cataaattgg aggaatttga ta 452

<210> 20004
<211> 488
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20004

gagggacttt gatganctca gacctccana accaaaacta gtcgtagaga ccagggttatc 60
tagagagaaa agtagttttt agtcaagagc ctaagcaaga ttggactgat gagacatcgc 120
ccaaagaccg tcattatcct ctttttgata gggcctacac actcttccca ctacatacta 180
gtgcactcac catctttgac tgtgaccagg tctatactgg tctcccacct cacacactga 240
aaataccctc caataatcga tccatcataa ccgtcctctc agactagaga gactgtaggg 300
aagggttctt ggtaagccca atactagccg ttccgaatac agagacgcga gccatctgtg 360
catttattag aaactacgga tggcaactgc atagactctc agccactcca cctaccgtaa 420
ctatatacat acacttttaa gagactcgac tcgataagac gcgagtaacc tattaactcg 480

gatgagcg

488

<210> 20005
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20005

agcttctatt ttagctgaac cattntatca ataaacacac gttgagtttt attcagacaa 60
ttagagttta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
gaacaccttg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180
agtgattctt tccttccttt catcatcacc cttgatcttt caaaccacaa ttccagacga 240
tccacctctg cccagaatta tctcgaggcc ataactccca ttttacgcac tcaaattaag 300
tgattcttga gcctaaattg aatttcagaa cgagaccttt cacctcgttt tgaatcacct 360
catttgagcg cctgtagctt cagatatcgg catttctata tttctgtcca cgcaccactt 420
aaccta 426

<210> 20006
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20006

tgccttgccc catgatatat ntgagggact tatgatcact atgtttgact aattccttgn 60
gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tcctaatacat 120
aagttgaata gttaagggtg ggaccactta gcttttcact aaaataagca attggatggc 180
cttcttgcat caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240
aattttgaaa gtttggcaac gcgagtatgg tggcattagt tagcttttgc ttaagaacat 300
tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac attnttcttg agcacttcat 360
tgagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa cttgctaagc 420
catgtgtcgc aacctaccct tcggcgagg 449

<210> 20007

<211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20007

```
agcttccaca atatccaagc aatttaatat ccaaacatca tgaactaccc taaaccaaga 60
aaacagggca gaggcagaaa actctgtcca aaacacattc caatagcaca gctttcccta 120
ctcaaatacc ccagtaacat tctcttcgct tcgattcgtt aaccattgga tcgactcgaa 180
nattttactg gaggtcccta gtacataagt ctacattttg accgttgggg tcagctagaa 240
aattttcaga acccaatatg tactaccttt ccataacca ataatgcata agcattttct 300
gcacaagaac aaaaattctg ctgcacaatt caacaaccaa tttctgcata atagggcaaa 360
tnttcgaaat ccctcttgcc cttcatccaa ttggtcana ttggatccta caagtcttaa 420
atcatgtata tatcatatct 440
```

<210> 20008
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 20008

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taagctcctt caactgcaca aggctcttaa tatttgaaaa gtattcttgt ggaacattca 60
cccgacgaag aactgacaa aaacttatct tcttcttttt ggacaaggta tggcaagctg 120
ggggcaagaa aattttcttc ccatcagacc ttggatgcaa ctatgatcat atcccatat 180
cagctagatc ttgataggta ttcaagtcac ccttcgtctt gccttgaatg ttaaggagcg 240
ttccaatcac actgtcacia aaaattttct ccacattcat aacatcaata caatgtctaa 300
cgtctagatc agaccagtac agaagatcaa agatgatgga cctcttcttc catatgcaac 360
tattactttt atccttcttt tgggtctttc caatacagt attcaggggtg ttgaaccgcg 420
tgatatacct gtcaccagt caacag 446
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<210> 20009
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 20009

ttcaagcttt ggattgttaa tcgcaccacg tttcaagaag agtagagggc gccacctttg 60
ctgagtgggtt atattagcat tttgttagtt gaaataaagg ctcaaacttg tgttaaagtg 120
gttggttaatt ggatttgcac cacctatagg cttgttctaa tttgaagaaa ttaaggttta 180
ataaggtgga aactctaggc ttgtggctgt ctcttggctg accaggagtt gtgcatattt 240
acacatgctt tgtgtcttaa ttctagtttt gattaggtat aatggcacca ccaattgttg 300
atattggtga tcatttcac ttctcactat tgtaaccaac ttgatgtcat tcctatttat 360
aggctacaca ttttct 376

<210> 20010
<211> 427
<212> DNA
<213> Glycine max

<400> 20010
tcagacaaca tgtcataata gattacgatg gacctgtaat taattataac aaagagtttt 60
tgccctcttga agaaactttt cttcacacta accatgatga tgaatgatgc aatatagata 120
tcatatgtac taagatgcaa catacaagat aaaaaccaat acaaatgcc acaaggga 180
ttaggcattgt aaaagtcaaa acatcttcaa aacttcttca agcttttct tgaagggttg 240
attaccatgt ggctcatatt gctccttcta tctctaacaa tgatcatcaca ataatggca 300
tggaagtgtt gaaggtaaag caacatacac atatgcatcg tactaccact cattatgata 360
tcaatattac acacttattt tctcgtacg tcactatcac cttcatagag tataataatc 420
atgtcta 427

<210> 20011
<211> 361
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20011

ttaagcttgt aatgttaaga aaagagcaac gcacacagtc atataatacg gaacaagtat 60
taaaaaaaaaac atataaatat aaaataacaa aacaaatcaa acaaaaaact ataagcatat 120
aaataaagtg tgtgtgttgc tatttaagac aaagaaaagc taagtgtgga aaggcaagta 180

atagagctgg aataaaatga caaaggttga tctatggatg aatgctttct tagaacctaa 240
 gcttttgcac actatagaaa ccatgaattg attgcagccc aggctcgtaa caagcctaaa 300
 aaagtccttc agattcagtt ngtgtgttct cgactatatg gcaagagatg aattgaaaag 360
 a 361

<210> 20012
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20012

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 aacctgagga atggtgtagt cttgctgctg actacttgca ttgtggcccc ctgcagctcc 120
 cattcatata cctagggatg cctataggtg ttaaccctag aaggaagggtg gtgtggggagc 180
 ctataatcag aaaanttgaa gccaaattga acaaattggaa ccacagaagc atctctatgg 240
 ctggcagaat taccttaatc aatgctgtct tgacagcttt gcccttggtt tatatgtctt 300
 ntttcagggc cccttcagca gtcataaga ggctcactac tatccaaaga caatttcttt 360
 ggggtggaaa cttggaagga aaaaagatag cttggatctc at 402

<210> 20013
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20013

agcttattat tgtgacgttg aatganatgc attntgtcaa agttntgtta aagagctaca 60
 aattanagtg tggcttanat tataatatat tattttttta taacagagtt gaaagatttg 120
 accgtgcact ntatatatcc atctttatga gtgaaatttc ttcaaattct anataaatga 180
 aaaaaaaaaag agccaatata agctataaat taattaagaa aggaagaaac ctctcttctt 240
 ggaattggat gactactgag ttgtgatttg tctttaatta cttgcgacta tcccatgcc 300
 ataaactgaa agtgagaaaa gagcagatta aggaagaagc aagctaaaca tgatngaagg 360
 atatggatat ggatatggat ggcgtactac cattccgtag aaaaccaaca tggagtaacg 420

aagcangata atactgagag catg

444

<210> 20014
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20014

tgagctgctg attntgatgt atatcttgag ttaatatataaa atctataatt atcatctata 60
taataaggat ttcgattcaa ctatggcaga atcaagatat ccttttccct cctcttccac 120
attccctaatt tattgctgac aaacttgatg attcaaattt tttgctgtgg tgacagcaaa 180
ttgaaccggc gatcatctct cacatcatct tcagtgttgt gttgtaaatc cagcgattat 240
gtgtggaaac caagtccagc aatctgtggc atgctagact tggatcatcca aactttcatg 300
tactgaaact tgttctacaa cactgtgacg tatgtacctc ctgttaataa aaatgttgat 360
gtctgtgctt cttgttgcca tggccagtca catacactcc cttcatctcc tgccactact 420
acctatggtg ctcttccgga atcgatttta gtgaccc 457

<210> 20015
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20015

agctttacca ttaatttata ttgatcagga gtaaaaaggg ggaaatcttg atctcctcag 60
tctttagtaa caagcacctg cttttactgt atcgttatct acttttcaat gagtgtgcac 120
ttttgtccat taactaaatt tcatataaga acaactaaga aatgaatagc aaggttactg 180
agttgaatcc tgtgatccta caatatcaaa actcatcctg cagtggtagt attgcttaga 240
atcatcgtag cgagtatgat gtgattatta ttacctatca tcacattatc aaagttgttg 300
taatcaattc taagtctatt atatgaatgt ntatttgatg taatccatta aattatcatg 360
gtgatatctt tatggatgag ctattacgcc aaagctatat taccttctga a 411

<210> 20016
<211> 460
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20016

ntgtactttt taatgacctg gattgggtttt ggtagtgaga tntattgttg gtgtggtagt 60
tggtgtttac aagggtagag aatttgaagg gtgtagattg tttgcctggc cagtggccac 120
tattgtagtg ttgcacatgg tgtgcagttt ggtttggtt gggttggttt cattgggtctc 180
atataattgt gcttttttgg tgcagctggg gccctgacag gagctatagc tgggtgctcta 240
gcagctaaag ccactaagag tgggtcttctc cggggagtta cattgggtgc cattgccggc 300
tctatactct ctgtggaggt gttggaagct atccgtgcct attggtgtat ggagcaaact 360
ggctcacgga gtgcatcatc tatgtgtggg agtcattctc ttcttgattt ccttggtctc 420
tttgtgagca caatgatttg tattaactct cataattatg 460

<210> 20017

<211> 394

<212> DNA

<213> Glycine max

<400> 20017

agcttctcga tctattatgc gctgaatcg gacctccgag ttaaaagtta tgaccattaa 60
aatttctcaa gagcttccgt tgattaattc cgtgcgtctc gatataattat gtgcctgaat 120
cggacctctg agctaaaagt tatgaccata tagaatatct cgagagcttg cgttgttcaa 180
tttcatgcgt ctcgatatat tatttgcttg aatcggacct ccgagttaaa agttatgacc 240
atttgaattt cttgagagct ctcgttgttc aatttcgagc gtctcgatat attatgttcc 300
tgaatcgaac ctccgagtga ctatttatga ccatctgaat agctcatcag cttccattgt 360
tcaatttgga gcatctcgat atatgatgcg cctg 394

<210> 20018

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20018

ctcaagaaat tcanatgggc ctaactttta actcggaggt ccgattgatg tggtttttat 60

atcgacacgc tccaaattga acaatggaag ctcttgagca attcacatgg tcataaatag 120
 tcagtcggag gtccgattca ggcgcataat ttatcgagac gctcgatatt gaacaacgga 180
 agctctcaag aagttcatat ggtcataact attaagtcgg aggtccgatt cacgcacata 240
 atatatctag acgcacgaaa ttgaacaacg gaagctctcg agaaattcaa atgggtcaaaa 300
 cttttaactc ggaggtccga ttcaggcaca ttatatatcg agacgctcaa aattgaacaa 360
 cggaagctct cgagagattc atatgggc 388

<210> 20019
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20019

agctnggata tatctatctt actcagccta atgtatgaga atgactatta cagtcagtgt 60
 taagacagtt ctccctaaga tcaataatgc taaagagttt atgggattag tgagagagcg 120
 ctctcaaaca actgataagt ctcttgctga aacattaatg agtacactga ccaccatgaa 180
 gtttaatggg ttgtgtacta tgcattgaaca tgtcattgag atgacaaaca ttacagcaag 240
 acttanaacc ttccttgatc agttttatttt taacttatta ccgtttgagt atgggtcatt 300
 ccaaagtagt tataatacca tgaaacataa acgaaatgtg catgaattgc acaatatggg 360
 agtttaagaa ggaacgggtgt ttaagaatca agatagtcac tgagtccatt atgtaagaca 420
 c 421

<210> 20020
 <211> 456
 <212> DNA
 <213> Glycine max
 <400> 20020

cgtgatagat atgaatgttc aaaaccaata caagagagag aattttattc tttattttat 60
 tctaategac cataaaaagt taaataaaaa taaatgtgga ctttgaaact ctgattatct 120
 tcgttattat tatattagtt aaattaaaca attttagtaa ggacgtctag ctagctcaat 180
 agattgatat agtatattaat ttctgtggat aaaaaaatc tttgtttgat actttaattt 240
 tattctattc taaaagaaat tattttttatt aatagcttaa ttatataatt cgtcatttaa 300

ttataattaa aaattccatt gagttcgtca attattaaaa cattaaaatc tottaattgt 360
 ttaaaacatt tccgttatta ttttttgtcc attacagaat caattatata attgagtcct 420
 ttattaaatt aatgaaattg cacatgtgat cacaca 456

<210> 20021
 <211> 192
 <212> DNA
 <213> Glycine max

<400> 20021

agctgttaca atatccattc tattcaattt cctttgtcat gacaccacgc tctaccatga 60
 aacatagagc ggaggcagag cactctacac atgtctcatt ccaattccac agctcttcct 120
 actcacatac ctactaaca gtacattcgc ttcgaatcga caaccattgc atcggtcga 180
 ctcataaact ga 192

<210> 20022
 <211> 241
 <212> DNA
 <213> Glycine max

<400> 20022

ctataaatct aagcttctta taagctgaac cattgtatca agatacacat gttgagtttt 60
 attcttatta ttacagtcca tctcttttat cttagtgaga gtgattctcc taaattcttg 120
 agtgatgaaa gaacaccctg tctgtatcaa atgactctca caacctttgt gtgtggacct 180
 ctgcgtag agtgattctt tcttacttt catcctcaac cttgttcttt caaaacacaa 240
 t 241

<210> 20023
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20023

agctttgagt tttntcaacc attgaatcaa aattctaattg tatatgtata tatctatcta 60
 tatttgttta ccaatgatcg aaattttaat ttgacaacaa tgattgattt ggtactatat 120

gtaaaggaag cttataactt tgtcagccgt tggttataaa ttttaattaa taattattga 180
 tttcattcaa taaatatcta gtatacttaa acatttattg ttgaatcaaa attctaattc 240
 tataacaatc attcatatgg ctattgtaaa aatatttgta gaaaagacat ccaatatttt 300
 atgcaacgga atttttttgt aaaaaagttt acacatttac aacaaacaga attttttact 360
 cccttgattg tatttttactc ccatcgtttt ataatcaatt taaaa 405

<210> 20024
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20024

tagcggaag aagatccacg aagaagccca nagacatgct ttgctcacc tctaccaca 60
 caaatatata ataataataa aaggaaaaat aatgcgggat taattaaag ttttaaaca 120
 catttaaata aaaacaattc aaaaagataa aatgttttaa tccacttagt gaaatcataa 180
 tataacttgt tcgaataaat gataaaattg tcttgggtca caacaaggcc acccatttta 240
 aatggagaga agtcacacta aaacagaaaa catataataa ctatatcatt catggattta 300
 taacatatga aataaaatgc tatgactcga tgttgcatat atcagaatat tttcttgatca 360
 gaggctaagt ctctccatct tcaactataga actcatcata tgctaactca cctgaaacaa 420
 tatggtaatc aacccaaaca caaacacatt gtgagtgaat tatcaca 467

<210> 20025
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20025

agcttctagc ttaatggact taccttgact taattccttt tatagccctt ttgagccttg 60
 tttccctttc ctgcttttga agctcactac aagctttaag tgaaaaacca tgatatcacc 120
 atatccttaa ggaatttttg agctttggaa ctggtttggg aataagtgtg ggggtttttg 180
 tttcattgga taacatgttt tgttggtcat gcttcatgat atattatgag ccatacttga 240
 tgtacattgc atattgggta aatgttggac atgctgaata tgatgttggt tctcaaaggc 300

tacagagtaa aacaaaaaag aatcgaaaaa gaaaaagaac agcagtagag atgagtgaat 360
aagatcttaa atgaccaaag aatgatgaga ctcttggtc tactctntat gtctaaattt 420
tatcttta 428

<210> 20026
<211> 465
<212> DNA
<213> Glycine max

<400> 20026

cttcttggtg ggttgatgca ctctatctcg tagaatggta tgatcactat cagacatatt 60
ctcaatcaat tcagttgcct cttcaaggtt tttcaattct atcttccctc ctgctgaagc 120
atctaacaac tgcttggttt gtggtctcag cccatctata aacatgttca attgaattgg 180
ctcagagaat ccatgtgtgg gagtctttct taacaaaccc cgaaacctct ccaatgcttc 240
actcaaggac tcatcagga actggtgaaa tgatgaaata acaactttcc cttttgcagt 300
ctttgactcg gggaagtatt tcttcagaaa tttctcaaca acttcctccc acgtcttcaa 360
atTTTTgcct ttgaatgaat ggagccactt cttggcttcc cctgccaaag aaaatgagaa 420
taaactgagc ctgatggcat catttggcac tcctgcaatc tttat 465

<210> 20027
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20027

ntcatattca tatatagatc attgcaactt gcaaacttca ttacaaccag ccaatgatgt 60
gaattcttca gtttgtgtca tgtacacttc ctctttcaac tcaccattaa ggaaagtgtg 120
tttcacatcc atttgccata tctcataatc atagtatgct actatggcaa gtagaatccg 180
aatttatttg agcattgcc aaggagaaaa tgtttcgtca taatctattt ttgctgttg 240
acaatatcct ttatcaacaa ggcgagcttt atacgtctcg acctttccat ctgctccaat 300
ctttttcttg taaaccatt tacaaccaga ttggtttata tcctttgaag cttcaactaa 360
agtccatact ttgtagatct tcattgattc tatttcaaat tccatggcat tttccattt 420
gttgcaatac gagcttcn 438

<210> 20028
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 20028

tcaatgcctg ctgtattctt tgattttctg tctccatgga ttggtattaa tgaatagcag 60
 gctcaagtct aaaatacagt cttccaaact tgtattaagt taaagtccaa agtacaagtt 120
 ctccataaga taatttcagc aaggaaagat gcagtaaaag gagaaatgga gaatcaagtt 180
 agcaaatact caaacatggt tgaattttctg attttttatg agtcagatca accggtaatg 240
 ctaaattcaa gaactcatgt gtgtcttaaat cacgagctaa tttttcttat atataatatt 300
 gataccaaat tgacgataaa ttactaattt acttgcaaac gaagaaactg gtatttcaac 360
 ctaaaaggga caaataattg acgatagcaa tttttataaa atatttaatt atcttaaaaa 420

<210> 20029
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20029

agcttctata ttatctgttc cattntatca ataaacacaa gttgagtttt attcagaaaa 60
 ttagagttta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
 gaacaccttg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180
 agtgattctt tccttccttt catcatcacc cttgntcttt caaaccacaa ttccagagaa 240
 tccacctctg ccagaatta tctcgtggcc ataactcca ttttacgcac tcaaattaag 300
 tgattcttga gcctaaattg aatttcataa cgagaccttt cacctcgtaa tggaatcacc 360
 tcatttgag cctgtagct tcagttattg ccatttctat atttctgt 408

<210> 20030
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20030

tgccttgccc catgatatat ttgagggact tatgatcact atgtatgaca aattccttgn 60
 gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tcctaatacat 120
 aagttgaata gttaagggta ggaccactta gcttttctact aaaataagca attggatggc 180
 cttcttgcat caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240
 atttttgaaa gtttggaac gcgagtatgg nggcattagt tagctgttgc ttaagaacat 300
 tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac atttttcttg agcacttcat 360
 tgagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa cttgctaagc 420
 catgtgtcgc aacctaccct tctgc 445

<210> 20031
 <211> 353
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20031

agcttagcat tgttggtgctt agcggcacca tgaaattcag aanattcact aagtatggng 60
 gcttagtgag caaggctcgc tcagcccaat ggctgccgta atgaaatggg cttagcccag 120
 ataggcttga cttagcgcac gactttcaaa aaaaaattgg actaagttac ccgggcttag 180
 cgattcagcc tcgcttagcc ccaagtatct caacaggagg atgagtgttc atcctcacia 240
 gatgagcttg cttagcgcgg taggtgcgct tagcgagttc gtctagaaat gcatatattc 300
 aatgaatatt gatgaactcg cttagcatag catgctcgct tagcgagttc att 353

<210> 20032
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20032

tatagccttt gtgaatctga ggcacaactn tgaaatgata tatatctctc atgtaaagga 60
 tcctcattcg atgatatata actaanaggg actctntcac tctcacttga taggtagata 120
 gtatattttg attggaatgt gcggcatcga catgcgttct gcttgatgta atttttaaaa 180
 ttataatatt ctttctaata tggctactaa tgtacgttta gtggagaata aataactatt 240

tcttccattn tccgtccttt cttcttagat aaaagacttg attgctgaaa ttgagttgct 300
 tgcacaagag tttataaatc gtgagcagca agttctttct gtgtacatga gtgtntttga 360
 acagtgtggt agtcggtcaa cttctcaaca aagttctggt gtttcttcac ctgctcatac 420
 a 421

<210> 20033
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20033

tcaagcttat tctctattgg acataaggta atatatatct ttgtattcct ttgttttttg 60
 tcttgcataa gctctggcct tggtattatt tattcataca tatgttggtt ttgttgacta 120
 tgaatattgt attatgtgtg gcaccacttt ttgtttctct attaagttnt aaccttttcc 180
 atatcgttgg tgattattgg atatggctgc aatttaatat aaaggcctan agagtgactc 240
 aactatgcat gtatcgtgta cattacaaac ttgggggtgcg tctgaattac tttatttttg 300
 tatctagaaa tgctgttagt caaactacta gagaacttct atcgaaaagc tattttatga 360
 aataaatatt agctaaaccc aagaat 386

<210> 20034
 <211> 324
 <212> DNA
 <213> Glycine max
 <400> 20034

tgaaggcaaa ctggatgcat tggttaactt ggtaaccag ctggtcttgt gtcataccct 60
 aatttcgtcc ggggaccttt gcttgatgac atgcgacctt tctttggtcc ttgtgaggtg 120
 cttgacaccc atcattatgc agtttgcgaa attccaggac atgcctaaaa accaaataaa 180
 tattgatgca caatccgtaa gtctacgtga cacatcggaa atcaaatgga agcatcgttg 240
 cataattaag tgaggttccg taagtcaaag aggggatgat tatgtcattc tgatgggtcc 300
 gtatcattac ggaaagataa caag 324

<210> 20035

<211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20035

agcttgacct ttcccgaccc aacccgagca tagtcggtca gtgagaacct gtgatgtacc 60
 taagcaggcg agtccttggc agtcaacaga taaaaggaaa ataagaccac aaagcaagga 120
 ggcttgtggg ggctggccag ctgtgaatnt tgtgtaatat gtggattgtg gcctctggta 180
 atcgattacc aaggggtggg aatcgattac aaggcttata attgaagaca ggaggctaag 240
 atggtctctg gtaatcgatt accaaggggt gtaatcgatt accaggcttg aaaacgaagt 300
 caggatactt aaggagcctc tggtaatcga ttaccagcct gtgtaatcga ttacacagag 360
 gaatgggtca ctggtaatcg attaccatgc atgtgtaatc gcatacatag t 411

<210> 20036
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20036

tctatataag ctgaaccatt ntatcaataa acacaagttt agttttattc agaaaattag 60
 agtttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
 accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgccctcgct ggaaagagtg 180
 attctttcct tcttatcatc tccacccttg ttctttcaaa ccacaattcc agaaaatcca 240
 cctctgcccc aaattatctc gtgaccataa ctcccatttc acacactcaa attaagtgat 300
 tcttgatcct aaattgaatt tcaaaacgag atctttcacc tcgttttgga atcacctcat 360
 ttggagccct gtagcttccg ttattgccat ttctatattt ctgtccagcc accacttaac 420
 ctacgttgta ccatcccatt catccatttt atg 453

<210> 20037
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20037

agctntgaaa tctgaagttt aatattcaaa tgatcaaagt tcanaaaaaa tgcacacaca 60
 tgacctctat ttatagccta agtgtcacac aaaattggag ggtttgaaat tgaatttggtg 120
 gagccaaact ttggagccaa aatttcacta attatgatta gtgaatttta gttatgggttc 180
 agcccactaa tccaagatca aatataatat tctccactaa gtgtgcttag gtgtcatgag 240
 gcatgaaaag catgaaggac atgcacaaag tgtgactata tgatgtggca atgaggtgta 300
 gtaagcaaat gtcacctgc cctctaaaa tntaattgga ttgngcttct accaattcaa 360
 ttaaatttat ttccaaccac acacatcaaa tatccactta gtgcatgtga aattacataa 420
 ctacccttaa taca 434

<210> 20038
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20038

taataaccagc agaagtaaag gcaaacatca tggttatgtt ccttatgttt tggttggaat 60
 ttttaccatc agctgtattt tgggtcaaaca gaagttgatg cagaagttta agtggattct 120
 gtaacaatga acgttcaact ttaccatctc cacaacataa gctgaacctt gggcttgaac 180
 tattttttaca tttttctatt ctttcattat accacatttt gcattacagt gactacattg 240
 catgagctgg tcaccaagat caaaatactc tgaaatgggt aaattagata tgagtaaattg 300
 atggtaacca ttgattatat ttgacagga atatgtaaat tatagcatga tagataaaag 360
 tatattttgg attgactatt ttaatttgaa ttntaaactg aagtacttgg atcagacatt 420
 tatcttctgt gttagttgca gagtcattag atgagaattg acaattt 467

<210> 20039
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20039

agcttggtata tttccncttt ttatggtnca tttggagtaa atcttgtaga taagtctcct 60
 tttatgggtta acgttgctctc tagaacattt ccattggatt taacgatgaa atctgtgcat 120

tttcacgtga aaaagaggct aagttctgaa ttgcaaaatg tagcagttgg gctaagcgca 180
taaccaccgc ctaacgcagc ttcagcgtgc atagcgcaaa ggagaatctg gcagagcatc 240
agcatcaaag tcgcgcgcta agcgcgagat aagtgaagcta agcacagcat gtgccttcag 300
ccaggctaag ctcgagactg gactaagcc caatttctact tactcacgct aagcatgatc 360
gtggcgctaa gcgcagtggt gcaatttcag agcctattta aagcctgtct tgtgaagaat 420
atggtacac 429

<210> 20040
<211> 470
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20040

tgtagggtta aagtctcacg attgtcacgt gctcatgcaa caatttgttt ccgtggctat 60
acgagacatc ttgccaaaca aagtcagggt cagcataact tgctgtgct ttttcttcca 120
tgctatgtgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa acgagaccgc 180
aattatacta tgccagttgg agatgtattt tccccctgct ttctttgaca tcatgattca 240
cttgattgtg catctgggtca gagaaatcaa atgtcgtgggt cctgtttatc tacgggtggat 300
gtacccgggt gagcgataca tgaagatctt aaaagagtat acaaagaatc tatatcatcc 360
gaaagcatct attgttgaga ggtacattgc agaagaagcc attgaatntt gttcagaata 420
cttagagacg gctaaagctg ttgggcttcc tgagtgtcng catgatgaca 470

<210> 20041
<211> 330
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20041

agcttgcttg ttcttgttta taattcacgc ctgaataaat tagaatagct ttatgatagt 60
ttgaatgttt gatttttcat ctaatttttag tctattttggt tgtagaaata aatgaagaat 120
aaagatagat ggtgttgggt gccaatcga gaccctttta taggaaattt tttgaggtag 180
aagggatcag acatgtcaag ctcaacgcac acttcangct aaaggaattg tttctcctgc 240

atgggtatttg gggtcaacgc ccactttatg ctcaaagcgc agtcacttaa tctagtactg 300
ctggttgcaag cacgcttaac acgacatgct 330

<210> 20042
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20042

acctataaat actcaagctt gtattccaga tctttngaag gctgctctca cttgtctgga 60
caatgtgttt gactctgacg gatctcttcg tgccttgagg gctaattgtat tatctcgtga 120
atcctgttgc ttggttagat tatatctttg ctgcttcatt tgcttttgct gaaatactat 180
gattcactat ntttatgtaa gaaatgatgt gttgggagca ctaatagaac taagcttatg 240
ccttctaaaa tggatatgga caatctatgg tcaagtggaa aacatgaccc atatcttgaa 300
gctttcctag gaatccatgt cattattata tgtgataact gataactaca ttttaatacgt 360
atcctcctcc cttaatccat attgctgtag agaatactca cttgntctgc tctctgactt 420
ctgtat 426

<210> 20043
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20043

agctttcgat gttccggtct gtgagacgac agtcacgtgt tcgcgatatg canagatgat 60
gttccgagta ctttggattt ggtccgacca tgccctcctg atttccagct gggaaattgg 120
cgagtggagg aacgcccctg catttacgca acaagcataa tgtagacctt tacggcccta 180
aaagctctat agttgggcct atgctttaga gatttcattt ctggaaggct ctgtgtcttt 240
cgcttttgaa tgcatagtac aaggatcttt cttcactcta gtcctgggtct ctacccatct 300
tcattcattt gcatgttgac tatcttttct aatacagcat attcgatgac gagtccccct 360
gaggtactaa tacct 375

<210> 20044
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20044

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 tgctagaact agcanaattt cacgtttgtg gattcttgct ctttagcctt accaacatcc 120
 aagttcagag ctgaatagta tttgatgtta tgtttcacca aaatgtgatt tttatagtgc 180
 tagtgtatgc ctatattcta tttggatctt atatgagatt tgggtgccctt aatattctag 240
 ttgtatgttg aaacacatga ttgtaagttt atgttaagca acctgctaga tccccaaactt 300
 tagtttatat ttcatcattt catgttataa gtatcttatt ctgccattac tgtgttatta 360
 atccatcatg cttcgaataa gagagaacct gaca 394

<210> 20045
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20045

agagtgtctt ggataagacg cttagagagg acgctttaat ggacgacgag actgagcgag 60
 ggggggggagg ggnannnnnn nnnnnnnnnn ccccccccc nncncccc ccccccccn 120
 cccncccc cccncccc ccccccccc nncncccc ccccccccc ccccncccc 180
 cccncccc cccccctc cccccncca ccccccccc cccncccc cccccctc 240
 ccccccccc ctccttnccc cccctccct cccctcccc cctccttccc cctccccccc 300
 ctcctctccc cctcctctc ctcctcccc ttccctccn ttcccccccc cccccctccc 360
 cccccccg 368

<210> 20046
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20046

tgcttctaca gttnttatcg ttttttcgca agattgtttt tataccaaat agaagtcgtt 60
 taagggtgttg gaccttttaa cgatcttttg attcttgaaa ggagagaatc gttaaggcgc 120
 ttgacccttt gaaaaatctc ttgatttttt ttaacagaga gaatcactaa ggcgctggac 180
 ccttttcgac gatctcttga tttttgaaaa gggagaaagt taagttgttg tgttctactt 240
 atttatgtta ttggattttg agagttttaa tatgtgatag aagaattcag caatgcaaca 300
 aaggaagggt ccaattnttt atgcaattat ttgaatattt acttctaata cataaacaat 360
 taaaactaat aaaatattaa aaaaaagtat gtatcattaa tattatggat acgtctagag 420
 aaaaaacata taaatctagc taatagtagt gagttagcta attga 465

<210> 20047
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20047

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 ctaacacagt gcattatagc taacttacat atgggcctgt ttcttgcaac agaagcaatc 120
 ttttaaaatg ttccacaagg gtagaagaat gtcttcatac ctgcagagca aatgttatac 180
 ttgttattac gaatgggaag tattgagtca ttgtgtgctg tcttgagcta atttcttttg 240
 tgtttatact atctccttgt tttttctgcc attcaaagga ctgaccagta tagtttctat 300
 atcatcaaaa cataagggtgt tttcaaagct caatgaggca accccttgac aattattcat 360
 gcggtgattca acatgcaaag ttataacaga tgaaggcagc ttncacagtt accactaaca 420
 gcactagccc tgattaagat 440

<210> 20048
 <211> 329
 <212> DNA
 <213> Glycine max
 <400> 20048

ggacctataa aactaagctt gacaatatgt gggctctggtt atactgtcta ctttctgtac 60
 tctttttcga tgaagcactg aatctcatct cacatgataa gacatgcatg aagaccatag 120
 actctgtaca cactcacatc ttaatactga gcacagctac ttatgaggag aactacactg 180

agctacccta cctgatatga tgtagacaca cttccctgac atcatacatg actttacaca 240
 attttaccct actttcaata ctacgagtga tacactgata tacatgacta cctgcctgta 300
 ctggaccaag ggtcattata caaagtctt 329

<210> 20049
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 20049

agcttcggat tatgttgaac atcacagtaa tgcctcatcc attctttgca taaatatgac 60
 ctctcatctc ctcttttttg gtacctagtgt tttgtggaat tttatatatc aattagctat 120
 taagaagcag attgcatgtg aagctttctt tggaaatcatt actcattgta aatgcattca 180
 ttttattcca tgggatatat tccataatcc ccacttattt ttgttagtgt gcgcatatca 240
 ttcagtgtat tattaaccct tttttctatg caacttatac cgttattatt tctaagtagg 300
 tcctgttcaa ttttcaaggt gagttaacaa tattgataac gtatttgta aaattaagca 360
 tacatcgga ttagtatta agcatacatt tgctggcttc tttaaatgta ttttaccac 420
 agcta 425

<210> 20050
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20050

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 tcaactctct aaacttaca catacaaatt taagcaagaa ttcagataac aaattccact 120
 ctctccctt ctatttaacc aactcaaaac agttcaaaat ccaattgacc actaatcaca 180
 accaatggaa ctcggtattct cgtactatca tttccacaaa gacacaaaca gctaataaag 240
 tcggtattat gtaaagcttg ctgctcgca tagtacctca tcagcaagaa ttttagagca 300
 gttgaagcaa acacaacgca ttatagttaa gacggctctt aaaaaaccaa tatggaacat 360
 tggcttagca agctccaagt gcccaaatg gccagggcac tcagccatac tcgccgtgca 420

agtttcacac ttcaactgtc tgtcaatggg tccaagccga gggtcactca atc 473

<210> 20051
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20051

agcttgtttc ttacagtaat catggaggtg gcatatggca gatatgcctc catctttaca 60
atccatgact tgaaagcaact taccttacac ctganaagtt ttagcccaaa tttgaatagc 120
gattgtctct attaatcccc tagttacttg ccttgccctat cacactcacc tatagaatct 180
taccagcttc aatgatacct taccagctnt aataacatag tagaattgat cagccacagc 240
attgaagcaa gttgccccaa tttttccacc atcagaatcc acaacatcaa aagattaatc 300
ctaccagcat aatagaggta gacattcttg gcctatagag ttttactact g 351

<210> 20052
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20052

tgagacttaa ttgctntggt cttcccataa gcagtagtct tcagttcact ctcacccatc 60
tccattacaa gcctttcttc ttctgaaca cacatgggtc ttaattcatt gatagaccat 120
ttatctttat gtgtgttgta ggaaatctta aatggcccat attcatgtgg aagggtgttc 180
aaaatgaaat gcactangaa ggactcagac atatcaacct ctagtcttctt aagttgagct 240
gagatatctc gcattttcat gatgtactca cgcacacctt tcacactggg gagccgaaga 300
gaagaaaact tcatgatcaa ggtgcttgct aaagtcttat ctgaagtgat gaactgggtc 360
tcaatggcct taagcaagtc tcggaccttt tcatgctggg caacagaacc acgtatccca 420
gccgagattt tagtcttaat gaacatcacg ctg 453

<210> 20053
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20053

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agtatctgtg ttatagcctc cctcttttgt tgtgctcgca cagttggccc tcctccaata   60
tcagggggtg gcccaggaac cgtaaagg aaactactgg tcccttaacc gggagttcaa   120
gtctcgggta agcatttaag gacagaggac cttaaattct cttaagggtg agacgtggag   180
cacactgaan atgaggacac gtagccctct aaagggtgagg gcgtgcagcc ctctcaagac   240
gaggatgtgt agtcctatga tggcgaggac atgtaatcct ctaaagggtga gggcatgtcc   300
ccctttgaaa atggnnggaca tgtagtcctc tgatggcgag gacgtgtagt cctctaaagg   360
cgaggacgtg t                                                              371

```

<210> 20054
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20054

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tctttgagan aacttccttg agaagctaga gcttagctac acactcccat ctaanaacta   60
agctcacctc cttgagaagc ttccttgaga agctagagct tagctacaca caccctctta   120
ataactaagc tcacctcctt aagaagagaa gctagagctt agctacacac ccctataata   180
cctaagctca cttccatgac aaaatacatg aaaatacaaa aaaaaatcct actacaaaga   240
ctactcaaaa tgcctgaaa tacaagacta aaaccctata ctgctagaat ggccaaaata   300
caaggcctaa aagaagaata aaaacctatt ctaatatatta caaagaagag tggacccaac   360
cttgacccat gggctcaaaa atctacccta aggttcatta gaaccctaag gccttcttta   420
tcagctctag cccaatcctc ttggagcctc ttgctcatgg ctctgg                      466

```

<210> 20055
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20055

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tagcttgagc tctcacccaa tcttgcaaca caatgttggg tccaagggtta tcaaactcga   60
cagtttacgt agactcgtaa gagttccata gactcaactc gtagacttat acgagtccac   120

```

ttcatataaa aataataaca aaatatctat aaataacata ccaattaaac attntaacia 180
tataataaag cagaatagta aatcataaat ttcacaatac tgaaataacc aagtctagta 240
atgcatcact actagataat aacttgcaga ttttatagta gtggtagagc attcccatca 300
aggatttgat gttattagag aatacgggtt tgatgttatt agaggtgaga gtttttcaat 360
tcaggaacaa cacac 375

<210> 20056
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20056

ctgaagggtgc gtagcccacc attntccata gtagaatact ggttatgtgt ctactatcat 60
tgtcatcggt nttttgtcat tgagggtgcc ctttgagctg ccagggttctc cacctttggg 120
cgtattcttt gaaagattta tgcccccttt ttgcacatgt tctgtagttg catcctatcc 180
gaagacatta tactgacact gcctaacgaa ggcaaccact aggtccttcc aagaatggac 240
tcgggaagggt tccaagttag tgtaccagggt aacagctacc cagtaagact ttcttggaag 300
gaatgtatca gtaattcctt atcttttgcg catgccccca tcttccgata atacatcttt 360
agatgcttct tggggcaagt agtccccctg tacttgtcaa agtccagcac ctttgactng 420
ggaggggtga tgatatt 437

<210> 20057
<211> 438
<212> DNA
<213> Glycine max

<400> 20057

catatagttt atatgtataa ccacatctgg cgggggtgacc gttctagcac agtccaacat 60
ataatcatgg ggcacgacca gaaccgggga tgagaaatga atgagccatg aaccgagagg 120
atgtctcaca ggtagcttat gaagacagaa gacactcagt cccattctta gggatgctag 180
gcacacgggt gaactgagag accatgaacc tgctaacggg agggcgctat tgcctaataca 240
gacaaagatg agctctacga tggaggctta gactagtatt gcacatcaag aggcggggacg 300

gacgcacgga gtgagcgtga ctagggctcc aacgaatggg acgagaagag attcccccat 360
gcgatgacga taattcatat acaagtgagg gcttgaatcg ccatttagct ggtgacaaca 420
tacagcacat atggcaag 438

<210> 20058
<211> 254
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20058

actcaagctc accaccttga ggacaaggag gattatcaag ggccatggaa cgatatgtat 60
actcacgang caccaagggc aacggcgag gaggaacgac agaccaaacac caagagaagg 120
gtgaaacagc caacttacct ggaggacgac acgacttgag ggcattgccg gaagaagaac 180
ctacgaacca cgagcccaat acagctcgtc gtacatgaat tctcagagcc cacacatgca 240
aaacaacaac gaga 254

<210> 20059
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20059

agcatgcan gttatacgtc gtgtatcaga tgaccaatgg tccctgctgc tgtgctccag 60
atttcataag aatcattggt ggataggcag atagataagc tagactatta tggccttcac 120
tcaagaatca tctttcttcc actatagaca actttgtcta tactatatgt aacaattcca 180
gagttaattt ttggagagat acctggtgct tggattgacc catctataga gatttgctaa 240
ttccccctcc tcattacaag ctcccttcct tatctgtatc tgacttcagg cacctaaaca 300
actggatcat ccctacaacc ttcttgatcg tgtt 334

<210> 20060
<211> 394
<212> DNA
<213> Glycine max

<400> 20060

tcgctctgcg acaaatactc agatctcttc gggaacgtga actctatctt ctatcacctt 60
 cgtctacgcg acgccaatca caaccaaca agttccaaca ctccgttgaa ccaccgcagt 120
 cttgtaaagc tcgacattgc gaggtcctat cttatctttc aggaggcacc ttccctcgaa 180
 gaaggaatac tctattttctc tctcgatctc gatcctgcc a tctaacaacg tacatgtgaa 240
 aagatcaciaa gttggaatgt ttagttgaga ctaaaaccag atcattgcat tactactttg 300
 gaagctataa tgcgatgaga accggagaat gctccacaca taagctattg gctaccaaga 360
 tccattactc taatttcaga catattatta tggt 394

<210> 20061
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20061

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 acctattntt tcaactttttt tttctgacta ttcattatta taatattagt aaataactct 120
 agaattttgt tgatttgat atttgtgtta ttttcatat ttagaccttg tatttgatc 180
 ttttggtttt tcatcactca gttccatttc aatatctcag ttgcacactt cttttcaaag 240
 aatcattata caagtatata tatttggaact ctattttcct tcgtaaaaaa ngtttgctga 300
 tctttcttta tgactaatgt cagaagggtt catatcaaag tatcgtacat gatgtttcag 360
 tagaaactaa ctggatattt gacatggatt ctcttggtgg caattatcag tatatgtaca 420
 aatatatat 429

<210> 20062
 <211> 476
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20062

gcttggtggt ccagggtgca ggaccaatac aactcaatn tgcttttatc caaccttacc 60
 aacaagggtg agtataatcg aaaaataatg gaattcttca agtatgtcat taagggttta 120
 attcttctta atgtgtatga aaaaacaaac tttggtgaga aaaacaaat ttactagaat 180

aatctttatg tctcagaata aattagtctt tgaggatcac ttaagggata ttcttgggtga 240
aaataataaa attaaatcca accttcaact tcatttgaac cttaattatg taaaattttc 300
aattattata nctatttata tcatgctatg ctcatccatg tgcacacaag tacctaaaca 360
ctatacacta ngcttagaat tagcctattc ttttccaaat ttaccgtntt agaatgtacg 420
cgcnctccct atanggacca gctcaacaaa atttgggtgc gttgtctata tcaatg 476

<210> 20063
<211> 353
<212> DNA
<213> Glycine max

<400> 20063

agcttatcat gttaactata ttgaagttgt gttttgtac tttctttctc gccaaaacgc 60
agacaccacc accgtttcct ccgttacgta attaagacaa aacgcacgga aaagtaacat 120
taatgttgat taatgttgtc gtttggegtc gggttcttcg ccattaccaa acgaaaccgc 180
gtttatttcg tctggacgat gagacagtcg cggtgggccc cgcgcagtcg aatggccatg 240
ttgtcccggg tactgacgtg ttagatatga cttttctttt ggtgagatga cagcgataaa 300
tccgacctga gtggcgtctc cgacgcatag atcaagcagt tgacggcgga gct 353

<210> 20064
<211> 457
<212> DNA
<213> Glycine max

<400> 20064

cgccgcgcgc aactccctct ccacgcagct gccagagttc tgcttcgctg tccacctcct 60
ctgcttcccg gaggtccagc ccagcctcga gaaacacacc gaagacgtcg atttccaaac 120
ctacgataac tctcagaact tctccaacta cggaacgagt cgacccggcg gaaccgactc 180
gttcagaaac tacgccacca ctttctccag ccgttccgac aacagtttcc gccgctacag 240
ccgcgatcc gccggccacg aggacagctt cgtcctctac ggaggctcca tcggcgacat 300
ctaccagacc ttcaacacct atggcacttc ctccgctggc ggcgccggcg agttcaaaca 360
gtacgccacc gaatcaaact tccccgagct tgatttcacc acctactccg acagctccgg 420
cgggaggagg cagtcgttct cgagctacgg cgagaac 457

<210> 20065
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20065

natcttaaca tanaaatgac atgctaatacc ctctgattta gaactaactc atgcacacgt 60
 ttagtgtaac acatttatgc acaggggtat gtgtaaaata tcttactatt tatgtcaacg 120
 tacaaggaca tccaacacat tctagttacc atacatatat atatatatat atatatatat 180
 atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat 240
 ntctgaaaag aacacacatt ctcatgctca aggcaactgcg tgaaaattca cacctaataca 300
 cattctatat attttgctat cacacactac ctacacatat ttgaagcaca tatcataaga 360
 tattcattgt gtcactcaca tttatttata tgcatatngg agagctatat acgtcgtgca 420
 cataactgca tttaaaaaag ggaattacat gcctcatac attcatttat gaagcgn 477

<210> 20066
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20066

agcttagaag ttatctanaa tggcatatca cttaaattggc ttcaacacaa agtgagcttg 60
 ataaattgaa gcaagaaaat gaaaaacttg tttcaagtta taaagcaacc gggtgtgttt 120
 gtgcttctac atctcttaat atggattatt gcaaactctt gcaagatgag tttgaaaagt 180
 ttaaaaatga tcacgatgaa gaaagtatga agttgtaaac tgagatttcc tatcttanag 240
 atcatttgaa taaaggaaag agtgatctta gtcacttact cagtgtgcaa aagcatacta 300
 ccaataaaaac tggtttgggg tataatgagc aaattgactt ttataagaaa actaagttn 360
 caccctccaa aaaggtgaac ccaacaaaag tctccaaaaa gaanaacata gt 412

<210> 20067
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20067

ntataacgga ggacaactag agcgattgat gaccatcatc tactttaatg acccttgaga 60
 aggcctagtg tctaactaag gacaataaac taagcgctgg ttgggaggca agccaacata 120
 ttttgtaaaa atggagtcac ttttttgtat tcattccaaa aaaaacagcc caacagctgc 180
 aaatagaaaa caggaggtgc agaaagtaaa ggcccagcag gtgaagtcag caataggaga 240
 ggtgacaata gcaaaagaga agtgggctac acgaagccac gcgcttagcg cacgtccagg 300
 cgctaagcgc ccaggtagct tttcaaattt ttgaatttta aaattctaag ggaaaaccaa 360
 gggacgcttc ccttggtgcg cttagcggcc atgtgcgcgc taagcgcggtg aatcataaat 420
 tacagggcag ttttcgaaac tgcctgaccc ctcaagtacc ttt 463

<210> 20068
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20068

agctttagg attatgngt atccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
 gcaaaacaat tctccacatc cacaatcac gtataacca ccatcccatg ttgccacct 120
 caactgagct cacatactcc cagtagccc ttatcctcgt tcctctcaac gccgggtccc 180
 catcaatcct cccaagcttc cacaacatcc aagtaattca acatccaagc atcatgaact 240
 aacacatcca agaaaacagg gcagaggcag aaaactctgc caaaaacaca aaccaacatc 300
 acaacttttc aactcaatt accccagtaa tattctcttc gttccaattc gttaaccggt 360
 ggatcgactc anaaattnta ctggaagtct ctgacacata aatctacatt atg 413

<210> 20069
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20069

tgctatttga nactatagtc attntcattg tcatgtgaaa acacatacac acagcataac 60
 aatattatgg aaattatttt ccagaaatta ctccctaccaa aaggattagt accagcttat 120

tgatcataca aaaacctatg ttccaaatca cccaaaataa aggatggact atcttttttt 180
 ttctaataa agttgttgag aatcacgaat ttaatgtata atgatatgat aggatatgat 240
 atctgattta gaggaactg aatatcctct aattatgtat aaccaatact acctgtctat 300
 ataaacaagc atctgttggtg tattctaaca cactgtttta gtctactatc cctctatatt 360
 ttatactatt ttacaaaagt aaaccctttg aaacanatta ngagcagana ananaaaca 420
 gagattaaca atacaaaatg gagtgcctct tcaaaca 457

<210> 20070
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 20070
 agcctgtcgg ttgcgattga cgaagggcgc acaagacgac gttagtctct gcatgctatc 60
 aggcttttcg tcttacagac agcaaaaaag aatgtttata cggataacca ctcggttttt 120
 tccgcccgtc agcgtgactc acatgtcagt atgacaaatc ttgtgagcgc ggaagatgac 180
 gtaaactctc gcgtgtcaaa gggcttgcg gccgcgattg acgaaagacg tacaagacgt 240
 cgttagtctc tgcgtgctat caggctttac gtcttaactg acacaaaaa gaatgggtat 300
 acggataacc actcgggtat t 321

<210> 20071
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20071
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 tattcttaat taattccatg gcttcttcag gggctttcaa ttntattttt cccctgcag 120
 aagcatctaa aagcttcttg gattgtggcc ttaaccgctc actaaaaata ttgagttgga 180
 ttggttctga aaatccatga gtaggtgtct ttcttagtaa cccacgaaat ctttccaaag 240
 cctcactcaa ggactcgtct ggaaattgat gaaaggatga gatgacagct tttccttcag 300
 cagtcttgga ctctatgaag tatttcttca agtatctttc aaccacttca ttccaagtct 360

taagactggtt accttataat gaatggagcc atc

393

<210> 20072

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20072

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atctcttgag caaactaatg ctcagacttg gtactttaac taatctttgg tcttcttttc 120
tatgacagcc acaaaatggt ccaggaatag gtgagttggc tcttggtccg ctcagtcttg 180
gggcttcana tacactgctt aacgctgacc attacggtgt ctatttcaaa ggaatgcctc 240
tcttgaatgg aaaggtgggc ataccattct cctttatgtg gtaattgggt atctggggta 300
cctgaaaact tacggttgag tttgtctaata caggtattac ggaggcattg agatgtattt 360
gagcgtactg ctagaggata ctatcatgca catggctcgt cggatgatac gatgaacctt 420
ggnggaatca aggggaaata tttgcctatg tattaattat taaaatag 468

<210> 20073

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20073

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tacccttcaa tcaaagtgtc tccattgtc acaggaatga aaagtaaact tgaaagggcg 120
cacagagaga atgacaagat cctacaaaat atgggtcaagg atcacaagga aaatgagaac 180
aagaatgggg tgacgcacga ggatattatt gatattcttc tcanaactca naagagagat 240
gacttggaaa ttcccttgac tcacaacaac gtcaaagcac tcatctgggt tagtatgcaa 300
ttttctttta cattacttta agattcccat gtatacaact atatactgc atagatatga 360
aatttgctga aataataact tacactttta tatatataga gagagaggga gagagagaaa 420
attgagtagc gacttattaa taaaata 447

<210> 20074

<211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20074

tcctcggagc catttcctac aaagacacat ccaactaata tttatcatga aaattatttt 60
 gcatgaaata cataaccata ctatttttagt tatcccaagt atagcaacca agaagtcaac 120
 caattctttt gtggtcttta ttaattgtag gtgttaccat acaactaata aagatcacca 180
 ctcaatgtgt attattttga aagaaagaat ttgatattct gcaaccattt atgcgtaatg 240
 caccacctt ggtgcagcaa gtttaaccaa acaaataggc caattcaatt cgaacaactt 300
 taagcattca tatgacttat gtaattgcat ctaaagcaat gtccaaaacc tcaagtttag 360
 ctcacccttg gcatttaatt ntaacaacct aagttgatca ttgtcgcgac ctgccctccg 420
 cgtgggccaa ggggtgcgtct tccatcanag gaaaacgcgt ggag 464

<210> 20075
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20075

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 gaataccata aagtgcctga tcttagtgga aagcctacag gtgaaggat tggatgtagc 120
 cagagtgggg tgaaccaata taaatcattg gtgtttcatt tgcttcctta ctacttattg 180
 tttgatgttg cgtgttgaag ttttgtttca gaaaaagggt tttataaaat tggtttaata 240
 tttagaagca aaacctactt tgttctaaga gaagagaaga tagaaactca tagtcaacag 300
 gttttgtatc atttgtgagt atgttctgaa gtagtaacca acaagattac ttggaagtat 360
 tacttgaaaa tattcaccaa tc 382

<210> 20076
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 20076

acacctgaca tcacctatgc aggaagtgtt tgtgcaaat atcaagccaa tcctaagata 60
 agtcacttga atcaagtaga gagacatctg aaagatgtat atggcaccag cgactatggg 120
 attatgtact gccatcggtc agatccatcg ctggtcggga atcgtgacgc tgattgcgct 180
 ggacgtgcac acgacagaaa aagcacttct ggagaacgtt cctattgggg aaccaatcct 240
 atatcatggg tcaacaagaa gcagaactgt gtgtcctatc tactgcagaa gccgagtata 300
 ttgcagcagg agacactcga cacaact 327

<210> 20077
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 20077

cgtgcgcaca tcgttcactt atatgatatc cactccttat gtttgaagta taggatacct 60
 tcagccactt atcacaacgc ggtggacaaa agtgggcaga atacattgaa tggacatcac 120
 agccaatgcc taacgtatta tgtgcttcac tatacatgtc cacacattat tgcagcttat 180
 cgagcgtgaa ctactaccaa tatatagatg ttggttacac aaatgagcac atttttaaag 240
 cttacttcgc acaatgatgg tctcttggga atgaagcggc tattcctgct tctgatgacg 300
 catggacact tatccctaac ccaactacaa ttcgtgcgaa aggtcggcct atatcaacaa 360
 ggataatgaa cgacatggat tggctcgaac catctgatca cgcacaaata tgt 413

<210> 20078
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 20078

agctttatta gaacaaaatt gcctaaatca tttccaaata tgcattgtgaa ttaagaagca 60
 tcaacaagaa ttaagccatg gctattgtgc aagcaatcaa tggggcaaaa acacacaaaa 120
 agattatgat gatggatggc tcaaattctc acaaaggtaa acttatcact ttcaaattga 180
 gctttcaaaa ctatcatgac atgtagagga aaaataacga ttttcaatca cacaatgtca 240
 agagactttt attttcagaa caattaccca tttcttgaac atatccta 288

<210> 20079

<211> 432
 <212> DNA
 <213> Glycine max

<400> 20079

tgtgaaattc accctgatcc cgatgccata cgccgacttg ttgtcggcca tgatcaccaa 60
 ccaaattggcg gtggtaaacc tagggaagat ctaccagtct cccttcctt gatggtacaa 120
 cccaacgca acctatgctt atcatggagg tgtctcgggg cattcaatag aacaatgcgt 180
 ggctttcaaa cacaaggtec aaagtttgat tgacgcaggg tggctgacat tcaaagagga 240
 caacctaaat gtgagtacaa aacctcttgc cagtcattgg ggatccgcag ttaatgcggt 300
 ggaggagtat aaaccttggg ggctgaagca gatggaagat gtggtaacct ctaggagggtt 360
 tatattagaa tcgttgtgcg aagcgggcat gatttgcctt gacgggcata agggagattc 420
 ttgtttgatg ca 432

<210> 20080
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20080

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 gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
 tgggtgttct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
 aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg tattctcatg 240
 caacaactga ggaggacaaa aaggtgaagc ttgccgccca cggaatttcc gactatgctc 300
 ttgtgtggtg gaacaagcta caaaaggaga gagcaagaaa tgaagagcca atggttgata 360
 catggacgga gatg 374

<210> 20081
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20081

acactataaa actaagcttg agatattaaa caacaataact nttactcggt gtctgattga 60
gtcatgtaat atttcgagac gctcgaaatt gaatacggaa gctctgagca aattcaaacg 120
acaataactt tttactcgga tgtctgattg aatcccataa tatatcgaca agctcgaaat 180
agaatcttga tgctctgagc aaattcaaac gacaataact ttttactcgg atgtctgatt 240
gagtcctgta atatatcgag acgcttgaaa ttgaatacgg aagctctgag caaattcaaa 300
cgacaataac tttctactcg gatgtctgat tgaatcccat aatataatcg cacgctcgaa 360
atagaatctt gatgctctga gcacattcaa acgaccataa ctttttactc ggatgtccga 420
ttgagtcctg taatatatc 439

<210> 20082
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20082

agctttttat agtgcagaaa atgtaggtg caatgcagtt gcacacaaaa tgctgacttt 60
tcgtacaaga atgatgaggt ccacttaca cgcataatgt ggatagcatt ccaaggtatt 120
atagaatttg ggaatacatt nttatatttc atcaacattt tggtaacccc aaatgtatta 180
aatagggtaa aagccatttt caatctcaat aactgatgtt cttttattta gagatttagg 240
agttcaaaat aagataagag gttnttcgtt gtttactaca agtcttagct agaatcacat 300
gaaattcana attaaatata tcttaccaac atcaaactcc aatgttgcaa cggtgaagtc 360
caacac 366

<210> 20083
<211> 433
<212> DNA
<213> Glycine max

<400> 20083

tattgtatag tgtgaaaaaa gtatgtatat aaaaatgtat ttgtatatat cacagatatt 60
caaccaatta aataatcagt aataataatt aatataaaat gaaaacaaat atatagaaat 120
gataaaagaa tagttattaa taaagcaaaa gagataaaga tagaagatac tgacaaaaat 180
taggaaacat gaaaactact attttacgta tttgttgcaa ttgataccat ttctatttgt 240

ttaactatat tgttgcataa tattaatatg ttttacatgt acaggacatg ctctgctgct 300
tcaagccaac tgtggacatg aatcttacat ttgaggagat ataagtttgt gcatatgtgt 360
tcaaccctaa tgtcgacccg aggtacgtag ctaacagtat agtgatactt gtagataagt 420
tttcgttcat ata 433

<210> 20084
<211> 389
<212> DNA
<213> Glycine max

<400> 20084
acttctatag cctatgtacc ataggcatca agctaata ttagagtaga cgagtagaat 60
gactccctat tctgtagtaa ttatagttaa ttatgttagt tgacctcaac caaccttacg 120
ttactcgtca gttactactg ttagatgtaa taactgacta gctgaagaat aagtactaca 180
gatgttactg acttaactag agtaggatga tgttacaact ccattcccga attctgagat 240
cacaccctct ttccattacc gaaataatgt tatggcatta tagagcactt gattgcatcc 300
tgagtaacaa aggcctttcgc aaacacatga tgggtgataa gaggagtgtc gctgttggat 360
actaacaata ggttgtgaat atgattagt 389

<210> 20085
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20085

agtttggttg attatgggtg acccgtcata tatggtacta ggtggcgatc gggcgatggt 60
gcaaatacaac tctcccatc ccacatatca aacatgaacc caccatccct agttgcccac 120
cttcaactga gtcacgtac tcctacgtag cccttatcct cgttcctctc agcaccgcat 180
ctctgggttc agtcctctgc gtttctctgc acccgtcggg gcccgttttc gatagtaggc 240
aatatatata tatatatcan aacgctcaga atgaaaccct ganggtgggt cagagggttag 300
gtttgtaa at ttttagtggc acgcaaaacg aataatttta gactaattaa ttgagaataa 360
tctat 365

<210> 20086
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 20086

tgtgaagata agcaattatt tctttaaaat aagttaaacc attgaattat ggctcaatat 60
 gtttgactga ttaccaagc cattttgggg taggggtgaa tatatggcaa taattgacac 120
 ctgggtgcctt ccacattttg aaatatgaca gaatcgtaac tataagtgtc acaattatcc 180
 tgtgtagtac gttattttga ttggcataaa ggaacatgtg atatgatatt ttttagtatt 240
 tacatttact tatcactatg tattttcttc aggttaataa gaaatgtatg ttttaaattt 300
 ttgcttatat agtggttaact gctaaggaag ctaagctatc ttatttttat atagatctaa 360
 aaattctagc actgatatcc agaattcatt atggcttgag ctgttttttt tctttgtcta 420
 acagt 425

<210> 20087
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20087

agcttggatt atgagtgaga tagaagaggt acaggaacag atgaaggctg acatggaggc 60
 catgaaggag cagatgacaa cgatgatgga agcaatgatg agcatgagga agatgatgga 120
 ggtaacacc gctatagttg gtgttgcaag cactaatact gaggtggacc cgatccaccc 180
 gtccgatttc aatcgagtgg gtcgtccggt ctcgatgta gtaggccaag gaggcaaggc 240
 agcagaaaat gcatgnggc cccattatgt tgaagttcag agcaagcatt cttttccgcc 300
 atatggtntg cctcccaatt ataca 325

<210> 20088
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20088

tatatnttac aataaaaaata tctgtttgag agatgttttg ttgaccttag ccaaacaatc 60
aatccacaat tatttttcaa ttattattct aatcgatttt ttttttgaaa tttaaccttt 120
tatttcagtt atttactcat attcctagta gatcaccttt agtgaaataa gaggctgatt 180
tctcctctta gtgatcatat cgattgattc aaacattcaa aacattcaaa ttttgaaatc 240
atgttagagt agttgtagct gaattttggt cgactaattg ttgattattc atgtgaaaaa 300
aattggcatg tctggtacga ccaatgtagg tgaattgatc aaacaatttg aatcacgaac 360
gaagttttac caacatatgc atttgcattc tcgtaagact actatgcgtg agatgaat 418

<210> 20089
<211> 371
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20089

atctgctcgt cttgctgata tttatcatgc acactnttct gatgatgacc tangaacaat 60
tagggatcaa cttgaaactt atgtgcttca agtgagaaga aatgcttctt tgtccacttg 120
tgaagatgtt caaagtttgg ctatgaagat gggttcagact gagaaacatt tggattttcc 180
attggtttat aaacttattg agctagctnt gatattgccg gtgtcgacag catccgttga 240
aagagctntt tcatcaatga agattatcaa gtctaaattg cgcaataaga tcaacgatgt 300
gtggttcaat gacttgatgg tatgttacac cgagcgggag atattcaagt cgcttgatga 360
tattgatatt a 371

<210> 20090
<211> 432
<212> DNA
<213> Glycine max
<400> 20090

tgtgaaatca atggaatcca agattccggt tgactctagt cgttcaattc tattcttaga 60
aatgtgacct aagcgtttgt gctataatac tcctgagttt gtatcatcaa ttctaagctt 120
agtaccatgc aatcttgcatt taaaggattc accataggag gctacagtat caagtaaatg 180
tagattatca ttaagcaaga gtgaaccaga tccaacaata tctgaattaa aagacaacct 240
gaacacattg tttccaaatg aacacaaata acctaatgtg tccaaataag aaacagaaac 300

caaatttcgt ctaaattgacg gtacaacaaa agtgtctttc acatccaaat aaaaaacagt 360
acataataaa aatctaaagt gccctatagc tttcacttcc accgatctac catctccaac 420
atagatcaat ct 432

<210> 20091
<211> 409
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20091

agcttttcga ttcattctat gtaccocgtag tggccacat tgtgtttcgt gcatttttat 60
tctcgttttg tttacttttt ataccccctg ttgacgtgct taagccattt tacttaagtc 120
gtttctcgct caacttaaaa gtaaaataaa tttccaccga acgtttgaat tgtattatcc 180
attaacttcg gttaaaataa attccgaccg ttcggtcatg ccgtaaccac gttggaaatc 240
aaaaagaggt aaaaaataat ataataatca aaaagacatc ttttagtaaa ataaagcgga 300
aatcaatcg gacgttttct ctttgggatt tctcattctt aatcgaattg attaataact 360
aaagtgaac taaggctaan atcaactcgc ctagtcaagc tcgtccaca 409

<210> 20092
<211> 432
<212> DNA
<213> Glycine max
<400> 20092

tatgcgcata tttccttaca aacgttctct tgcacttgat attctattaa ccgaaaaaaaa 60
tgcaccata tacaatcaag gcagcttcgt ttacctagat tatttacacg tacttccaag 120
gtgtatttgt tacttacatc acacacctcc ttggctaaat tcacacacat gcataactcaa 180
agcatttttg ggtaccaaaa attgcacatg tgcacatctt ggtatttcta atacctatac 240
atacaciaaac ttcattgatga atcttgacta tctacacaat aagggtgctac attttatgct 300
cttttcaagt ttttgctacc taaagccgca tgcaaattca agtatatttt cctttgctga 360
ctaaaattgt attcaaatta aaaggtatac attctctggg aatgtatctt ctttacataa 420
catgcaacat at 432

<210> 20093
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20093

agttttataa tgtagcagtt ccagggaacca tcgacgaacg ggcgatcaat acaaaaagaa 60
 tactcaatcc atgggaaagg aatgaaaatc acacactntg cctcaactct gctaaagcaa 120
 ttggatgtac agtgggtcaac attggcactc angacttcat tgaaggaagg gtatgtttgt 180
 aggcccttcta gtttccaccc ataaaagcag aattattgtg ggcattgtaca ctgcagaacc 240
 acaaaattta agatttaatt taattttataa atgaaatctg gtcagatttg attatttctc 300
 gatcaaagta attctcaatc aagttaaccc ctttttttaa tgattccgaa tgctggtaaa 360
 gtatctntat agcatgctac attnttttac agtcaaagcc tntctctatt ctttntggca 420
 atgctacaca 430

<210> 20094
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20094

tggtgaagtc taaatagatg gtgactagac atttngtgat tcaaactcca tagaaggat 60
 atagcaacta tttaattaaa aaacaacctc agaattcatt tagttcatat atttcgagga 120
 gagctactgg tttgtttgga gtagtgcatt cagatgtgtg tggaccattt atgggttcctt 180
 ctcttggtgg gaacaatatt ttgtttcctt tgtagatgaa ttttagcagaa tgttgtggat 240
 ctttcttatac aagtccaagt caaaaaaatt ttcaatcttt aagaatttta agttacttgt 300
 tgaaaagcaa tctgaaaaaa catattaaga tacttatgac tgatgggtgga gttgagttga 360
 gtataccttt aaagagtttg aagattattg caaaggatnt ggcattcaac atgaagtgat 420
 attaatatg 429

<210> 20095
 <211> 344
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20095

tttatctttc ttgtggggct tctatggtgg ctggatcttt gagcttcaat gaggtccttt 60
aatggtgatt ttccaccatg gagatgcagc ggaagacaaa ggagaagatg tgagaggagg 120
caccatccac tatggaataa gccatggaag aaagagcttc accaccaaga tgagccttgg 180
ataagaagct cggagaggat gcttcaatgg aggaaaagaa agacggagag aaagagagag 240
gggggagcac ganattgaac gaagatnaag ggagagaagt tgaactttga gttgtgtctc 300
acaagactct cattcatcan agttacaaca agtggtagac atgc 344

<210> 20096

<211> 432

<212> DNA

<213> Glycine max

<400> 20096

tctttaagag tttcatgcag tacaacctgc ccactcttca attatgcaaa ttgggggatg 60
caacatctgt ggtggggccc atgagttagg taagtgcata tccaacacg atgcatccaa 120
agaattcaac tacatggcta atccatatca tcaagggttc catcaaggag gacctcttcg 180
atacaatcag ggagaaactt tttcttaagg ccaagggttg agatcccatc ctgggaataa 240
tttcaataaa gatagacaat ccatccattt caccttccaa ccaagggcct aatctttatg 300
agaggaccac caagctagaa gacactctga ctcaatttat gcaagtttcc ttgtcaaadc 360
acaagagcac ggagttagct atcaagaaat tggaggtgca agtgggcca ctacctaagc 420
aactagatga ag 432

<210> 20097

<211> 264

<212> DNA

<213> Glycine max

<400> 20097

tacattgatg tttgtattta tgggaggagg gtgtatgtca tttttggttt aaaaagagtg 60
tcccactggt aaaactaact ttccaaatgt ttgccttctc acgaaatggc cccgaggaag 120
cttgctcaa agagggtccc gaaagacaaa gcagccgaag gaactatttc cgctccggag 180

tatgataatc accgctttat gagtgtctga caccaacagc gcttcgaggc catcaaggat 240
 ggtcgtttct ccgggagcga cgcg 264

<210> 20098
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20098

actcagcttg gcaataagta ctcccgcat tttctctgta tgcattgtat gtaggtctcg 60
 tcctttgtca cgggaagccg gaaggtccat atcaccttct taattgtaca catggggcac 120
 tgcgccccca aatgcacaag taagaagaga taattttccg ggctctcgtg tccgtaaaat 180
 gcattcatat catgcaccac ataagcatct cttcataaca tcataatgga catatcctgc 240
 atttgtccgt tatcatattc cagcctcaca ttttgcata gtcattggcat catcatgcat 300
 atgcgttcaa caaacttttt gatctgcaaa attgcatacc atttgttttc atgtttgctc 360
 atccttgctg tntcctctac aaaacataaa caaaaaagg ggaagcgtga aacttcacac 420
 tacattctt 429

<210> 20099
 <211> 236
 <212> DNA
 <213> Glycine max
 <400> 20099

tatctcttca aatcattttg aaaaggcacg aactacctat atatatgtgt gtctgatttc 60
 aaaaagcaag agagagatat tccaagagaa cttcattgtc aaatgctctc tcaacaactt 120
 ttgggcacac acttagcaat ctattaagag ttcatccaac aacttcaata gtaatatcct 180
 tcttttaaag agagaattct tcttcttctt attaaaagag attgattaac ggaccg 236

<210> 20100
 <211> 430
 <212> DNA
 <213> Glycine max
 <400> 20100

tgataaatct atatatgggt taaaacaagc ctcccgtttt tggtagctta agtttcatgg 60
 gataatttct tcatttgggt ttgatgaaaa ccccatggat caatgcatat accacaaggt 120
 cagtgggagt aaaatatggt ttcttttttt atatgtagat gatattttac ttgtagccaa 180
 tgatcaagtt ttgctacatg aggtgaaaca atttctctct aagaattttg aaatgaagga 240
 tatgggtgat gcatcttatg tcatcgacat taagattcat agagatagat ctcgaggat 300
 tttgggtcta tcacaggaaa cttatattaa caaaattcta gagagatttc agatgaaaga 360
 ttgttcacca aatgttgctc tcattgtgaa ggtgatagg ttttaattga accaatgtcc 420
 aaagaatgac 430

<210> 20101
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 20101
 gcccaaacca taacttcgat gatgttgac aactgcctat cttctatagt ggtttgaaac 60
 ctcaaacc aa gatggtcttg attcctcaac tagaggcact atgatgtcca tgagtccaga 120
 ggaagctatt ataatgattg actccgtagc agctagtgat tatcaaagtc atcacgatag 180
 agctccaact caaataaaaag ttataatgga gttggacact tagaaaaaaa actcttgaca 240
 caacaaattg aggccttaac aaagcagata tgccaacttc cacagcaata tcaccaaggt 300
 ggaccacata aaaaaaatta agctcaccga gttcaacaca ttttgagatg tgaattctgt 360
 ggtggttaacc atcataatgg ccaactgttc gcacctagt atggacaaca ag 412

<210> 20102
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20102

atgctgcaaa catttataat agacctcctc aacagtctat tcaacaacaa cagaataatt 60
 atgacctttc aagcaataaa tacaatccgg gttggaggaa tcatccaaat ctaagatgga 120
 caagtcctcc acaacaacaa cagcctgttg atcgaggcca taccgaatc aaataaacat 180
 taaaaatgca gtatctagga agtgatccta ggtcgtctcc caatgagcaa tggtaacca 240

aatgttcata acaaatagta ataaaatagt aacgaattgg ggggggggga ggatntatntt 300
 taacaatatt gtttaaattt tgagttgatt aatctcatca cgacatagtt atctacctta 360
 tttgaacatt tggttaataa tcatatatat atatatatat atatatatat atatatatat 420
 atatatatat atg 433

<210> 20103
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20103

agcttttggg atgatctggg acctaaccat ggcagagggtc tccacagagg ccattgtctc 60
 cctcgcccaa tattatgacc agcccgtgat gtgcttcacc tttgtggact tgcaattatc 120
 acccacagag gaagacgttg aagaaatcct gagatgccct ctgggaggaa ggaaaccata 180
 cctattctcg ggattctatc cctctttaac tagaatttcc aagatatgcc aaatctcaac 240
 gcacgaatta agccacagaa aggaagtcga aaatgggggtg gttggagtac caatgaaatg 300
 ctaggaagtt aaagcaatac tcttggangt aaaggcgaat gggccccgtt catggacatc 360
 ctcgcacttt tgatct 376

<210> 20104
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20104

nttcaattca ttctatgtac ccgtgggtggg ccacattttg tttcatgtat ttttattctc 60
 attttcattt actttttata cccccttttg acgtgcttaa gccatttatt taagtcattt 120
 ctcgcttaaa ctaaaaataa aataaatttt ccaccgatcg tttggattgt atcatctggt 180
 aattttgggt aaaatgaatt ccgaccgttc ggtcgtgccg taaccacgtt ggaaatcaaa 240
 aaagaggtaa aataataata taataataaa aaaatacctt ttagtaaagt aaagcgaaca 300
 atcaatcgga cgttttctct ttgggatttc tcattcttaa ttgaattgac taataactaa 360
 agtgaaatca aggctaaaat caaactcacc tagtcaagct cgtccacaat aatagggtttt 420

tgaaagtcta tca

433

<210> 20105
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20105

agctttatat acaccaacag caaatttttt ttcaagcacc acaaactcta actcaaactc 60
aaaagactca aacagaagag aagaagagaa tgcataatttg gtagatattc tatgtgcaaa 120
cagccttatt taaagggaaa gggaagagga tggtttcccc tattacgttt caactgttct 180
gaaccttgaa aatatcagtc atgttcaatt ntttcttcat tatttctgca aatcctatac 240
ctgaacccta gcaaagagta caaagccatg catgaacccc ctataactgaa cctaccctca 300
tgcattgttg actgcacggg ttgtatcttg ctagtctcac t 341

<210> 20106
<211> 408
<212> DNA
<213> Glycine max

<400> 20106

tccaacacac attggttgta tggacagggt tgttattgta ttgacaaaac accttttttg 60
aggagttggg agaggtggat cggttgaagg atgatccatg atttgcatta taggactttt 120
gtggtaaggt tgcttaccct tgtgtattgc atgagcaatg gcaacaaatg aggtatcatt 180
gttgttgtca tccctcttga gataactctc aaagtcaaga gaagatcatg aagctcttca 240
aagtcaatcg gtttttcatg agtgtgaaga gctgtagaaa cctccttgta ctcagcactt 300
agccatttta aggtgtgaat gacaatgtct gcacgtcca gtggatcatt ggtgatggct 360
aattcatcag tcaaagatta tattccatgg agataatcac tcatggat 408

<210> 20107
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20107

agcttgatatg gttaaagtct cacgattttc acgtgctcat gcaacaattg ttagtcgtgg 60
ctatacaaga catcttgcca aacaaagtca ggtagccat aactcgcctg tgctttttct 120
tccatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagttg gaaaatgagg 180
ccgcaattat actgtgccag ttggagatgt ttttccccct gctttctttg acatcatgat 240
tcacttgatt gtgcatttgg tctgagaaat caaatgttgt gatcctgttt atctacggtg 300
gatgtacccg gttgagcgat acatanagat cttangaggg tatacaaaga atctatatcg 360
tccagaagca tctattgttg agaggtacat tac 393

<210> 20108
<211> 434
<212> DNA
<213> Glycine max

<400> 20108

tcttgatgc ttactccaga tacaactaga ttaggatttt tgctccaaag gaggcgaaga 60
tgacatttat cactaaagat accaactttt gctaaagggc tatgcccttt cagcctaaaa 120
aatgtagacg ctacatacca atgactgatg gaccgagtct ttaaacaaca aataagacaa 180
aacatcaagg tatatgtgga caacgttggc ggtaagtctc gaagcatagt ccaacatgtg 240
gcagatctgc aagaagtctt caaggaactt tacaagtatg acatgcgcct caaccctgaa 300
aaatgtactt tcggggtagg cagaggcaag ttctctgact tcatgatcac tcaccaaggg 360
attgaagcca accctaaca atgccctacc atactagaga tgcacagccc gaccaacatc 420
caagaagtct agaa 434

<210> 20109
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20109

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aaaatcaaac aaaacaatgt aattataatt ttaattaaaa aaagacataa gttttttcaa 120
ctttattttt ttcatttatg tccttttata attgttctct tattttttaa tttacgtatc 180

cattaaataa aaaaaacgta gtaatcaaga actgaaaata gaaaatataa attttttaaat 240
 aaactaaaaa taatgtgtag ataaacggat aaatcttcaa tttctaaata aatgggtgaa 300
 aataagaatt atacctatnt aatttattag taaaaatcat ttttaattaac ttaaaataca 360
 ttntgtcaac tataaataga gaatac 386

<210> 20110
 <211> 472
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20110

aggcgcaatg atccgtggat tctcaggacc ttgaaactaa gcttggcatt gtataatttt 60
 ctaaaagatt atttttttatt ntttatttat tttttaattt gtagataaat aaaattatta 120
 atttttaatt tatagtagta tattaaatac aaaagtagat ataataaatg tgaatattac 180
 ttttgagtgt tcattttttat attatggata ttattttacca tctaattgat tttttgtggt 240
 tataattaat caattttaaat gtatttttcag taaaattaaa aaaattttaa tttgttaaaa 300
 ttgtgtgatt tatttttatcc tttcagagtt atttatttta acaatattgt ttaaattttg 360
 agttgattaa tctcatcacg acatagtttt ctaccttatt tgaacatttg gttaataatt 420
 atatatatat atatatatat atatatatat atatatatat atatatatat an 472

<210> 20111
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20111

agctttacat tatattntag taatgaccca ctaacctaga attaaaataa cttaatgcca 60
 ttaacctagg gaattaaaaa aaaaaactta atggctgagt gtaactgaaa ttgtggcaac 120
 caaaagtcac cccaacagc caacaagtca gccaccattt ggtctcccaa aagggtgagg 180
 cctaggttgc caattgggcc cttattacaa cttgaactaa acctactaaa gccctttaag 240
 ttgattaacc caaacatat ttttggtcag ccaactntac aaggattggg ccattattta 300
 gacaaactaa acactctaaa attgagacaa agtgggtgcca tttagtcott ctccatttgn 360

gccatgatac aactcac

377

<210> 20112
<211> 425
<212> DNA
<213> Glycine max

<400> 20112

tgtggattag ggggttggtg tgcattgttg gcagattttg tagaagcttg tggttaaagg 60
gtctgttttg tctttctcat aatctttgaa ggagcttgta gtttaaggggt ttgttttttc 120
tttttcacaa tatttgaaga agcttggtgt tgaggtgctt gtttccttta attcagctaa 180
ccaccttttg gttgaattcc ctaaaccaat aataagtgtc attttaagta attaacatat 240
aaaagatgtt aactaatgta aataaagatt agagacttac caagttactt tccttattag 300
ttgctgcatt tttgtcattt ttcgtgtgtt gagggataag ttctttctta gcttgattga 360
ataacatgta ctatgttgtc attcctagtgt actctgtgtt caagaactgt gttgttattg 420
tggcgcg 425

<210> 20113
<211> 359
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20113

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atataacgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120
tttttactcg gatgtctgat tgaatcctgt catatatcga gacgctcgaa attgaatgtt 180
gaacctctga gcgaattcaa acgacaataa ctttttactc agatgtctga tatagtctcg 240
taatatatcg agacgctcga aattgaatgt tgaagctctg agcaaattca aacgacaata 300
actttntact cggatgtctg attgagtcgc gtcatacatc gagacgctca aaattgaat 359

<210> 20114
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20114

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aattttattgt cgtttggatt ggctcagaga ttcaacattc aatttcgagc gtctcgatat 120
attacggggc tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggttcagag 180
cttcaacatt caatttcgag cgtctcgata tatgaccgga ctcaatcaga catccgagta 240
aaaagttatt gtcgtttgaa ttgggtcaaa gcttcaacat tcaattttga gcgtctcgat 300
atattacggg actcaatcag acatccgagt aaaaagttat tgtcgtttga attggctcag 360
agattcaaca ttcaatntcg agcgtctcga tatattacgg gactcattca gacatccgag 420
taaaaag 427

<210> 20115

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20115

agctttanga gatctgaaac tcaacttcct ctctcccat ggaagtatgc tgcgcttgga 60
actttgtact aaataaggct gagaagaaga agcagtagaa tcctccctct gtgaacaccc 120
aacatcagac ttgcgatggc tgtaataaac ccagtcttca tcattacaat ttactctcgc 180
attggaatga aaaaatcccc cagcatttgc agaagccagt gttccataac tgaatgactt 240
cctaacactg gaatcctcct tccccccatc tgtttcacct tcctcagaat catcaagtga 300
ctcagaatcc aaaggataat tgtattcacc atcctcactc ctagagcacc ttncttcaact 360

<210> 20116

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20116

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tagtataaac agaaaagatc gactttgatc agtatatgtc ctatggcaat ctattaaaca 120
atttaattaa ttaattattc gacagaatac atatctgcaa gtttcaatat atattttatt 180

caacccaaaaa cttatctata tcaggaatat gagtaattat gtttcaacac cataaatatt 240
 taaagaaaaa agtaaattag ttcgatatag ctataactaa atcatagcag attatcaatc 300
 aagttacatg tagtagtgta tcctattgaa atgaaactat ctttgagagt cttatgagct 360
 aagcacgtta gaatntggaa ttagggatatc aggtggccca tgcattccac cact 414

<210> 20117
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20117

agttttttct tgtttctctc cccatttgaa accaacattt ttcttgagca cttcattgag 60
 aggtgctgcc aatgtgctaa aatccttcac aaattgtcta taaaaacttg ctaagccatg 120
 aaaactcctc acctcgggtca cggacttang tgtaggccat tcttgaatag ccctaacctt 180
 ctctcatca acttgcactc cttttgaact cacaacaaaa ccaagaaaca caacatgggtt 240
 agtacaaaag atgcattttt caagattggc atacaattgt tcttctctaa gcacagtcaa 300
 gacagattnt aaatgatcaa tatgcaaac aagtgaagtg ttatagataa gaatatcatc 360
 aaagtacacc acaacgaact ttcctatgaa ctctctcaaa tatggttcat agtctcatg 419

<210> 20118
 <211> 431
 <212> DNA
 <213> Glycine max
 <400> 20118

tccatcactg tatttggcca gtttcatgat tctctatatt aagaagaacc gatacatcca 60
 cagtgacaaa attatggtgg aaggcaattg tagtggtggt gttcaacaca ttcttccacc 120
 taagtacaaa gaacttgagg ttgtcatgat accgtgttcc attggttaagg ttgctgtagg 180
 aaaagctctc atagacttgg gagctagtat caacttaatg cctctttcca tgtgctgggtg 240
 acttggagag atagtgataa tacatacacg catgaccctc tagttagctt attgctccat 300
 cgcaagacca tatggagtga ttgaagatgt tttggggaag gtgaaacacc ttatatcccc 360
 agctaatttt gttgcgatag acatagaaga ggacgctgat attcctctca ttcttgggtcc 420
 cccattcatg t 431

<210> 20119
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20119

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 acgaattcaa ttgatatatg atagtgggtca ataaacatat atgatctcta aaagcttaca 120
 tgttgacatt gactattcag tttataccta tataaattat ctaattctgg tgagggattg 180
 atgttgaatt aaaaaaaact aacggaagat gtaaaaaatg aaagttctct tagccaataa 240
 aagaagtaat ccttaatagc atgtagaat gtgggttttc tgtctccgac cgagtntgtt 300
 ttcttcta at tggatcagaa tattgtaaca aaaattgcat tttgtgcaca ttcatttata 360
 atatgtaaat aaataaataa attgagtctt gtacacattt tcag 404

<210> 20120
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 20120

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 gcttagatac agttccttgg tttttgatgt tgttttccaa tcagaattgg agtttcactt 120
 tagaagtcca cataatatag atttgcatta aaggattctg tagattattg aaatgaaact 180
 ccaattctaa ctgaaaacag caccaattgc acctaaagaa ctgtatgcaa gttttgtcca 240
 aagaaatata ccttgaaacc gtgacacaac cgcagatggc aagaagcaaa cctcgtagaa 300
 ggaatcatat ccaacaaaa gacaaatcaa gtaaagtact ccacagacaa ccaccactgc 360
 agaagtgaga aacggaatgc tttcccacca ttggctcatc ctagtaggaa acccggcctg 420
 agtcaattaa 430

<210> 20121
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20121

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ccattaattt tcagctttac cttctcctcc atttttgttt cttcatnttt ctccatgtat 120
ctcctcacat gacttgTTTT gaattttgtt aacatgattt tttagaattt ccaccgatta 180
aacttgctat agaagataga tttgattttc tatgggttcaa atttcttgct cttgttcttg 240
aaccacgaat tgtgttgagt ttaagttcct ttgagttctg tcttggctat ttttgtgggt 300
gaaacctaaa ccatanaatt cttacaaaaa cattaaagta gaagaaaaac ctcaaaatat 360
agagtgactt gtc 373

<210> 20122
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20122

tgaacctcat cgccactact agatgactcc acttntctatc tttctcctaa agacaacacc 60
aagttaaaat caatcatcac aattacttgc catcaaagct actacctttg ccataaactt 120
ttcccccttag gtcataggga gcatatacat taatcacctt tgttggacaa gaggcctcaa 180
taacttaaga gggggagaaa ttaagtttca aaatttccca ctaactaact ttttaaccctt 240
ttttaaatga taggctcgaa atgcagaaga agaagcaaca atcaatttaa taatgttctt 300
taaacatgca agacaaaatt gattgcaata acataaatga gataagggaa gagagaaatg 360
caaaactcaat ttatattggg tcggccactt cacatgtcta tgtccagtcc tcaagcaacc 420
cacttg 426

<210> 20123
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20123

agcttgatat attatggggg acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
gcaattcaac tctccacatc cacagatcac acataaaccc accatcccca gttgccacc 120

ttcactgagc tcacgtactc ccacgtagcc ettatcttcg ttctctctcaa cacctgggtcc 180
ccatcaatct ctccaagctt ccacaacatc caagcaattc aacatcccaa acatcatgaa 240
ctatcaaaaac caaggaaaac atggcagagg cagaaaactc tgcccaacac aaacaaatat 300
cacagctttt ctcaacttaa aacccagta acattctctc cgttccaatt cgtaaaccgt 360
tggatcgact canannattt actggaagtc tctagcacat aagtctacat t 411

<210> 20124
<211> 433
<212> DNA
<213> Glycine max

<400> 20124

tcaatacagt gacactagtg ttgcaacaaa ggagctgtct tagtcttttg gatgggatac 60
atatgattct ttcatgcagc atgatgttca agaactaaat cgggttctct gtgaaaaact 120
tgaagacaaa atgaaggat ggcaagagat ttggaatgtt tgttcatgat tcttcttgat 180
gagtgatcat accaaatggg tgttgatgtt tatttttctt caggaaactg ttgttgaggg 240
aactatacaa aagttatttg aaggacacca tatgaattac attgaatgca tcaatgtaga 300
ctacaaatca actagaaagg agtcatttta tgggtacttcc ttatgcattt tgaattcaat 360
tatatgttta gttcttcttt gttatgtaat tctaatttag tttttgcata tgcattgtag 420
atcttcagct tga 433

<210> 20125
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20125

agctttctga cctgagcatt tgaattgaga aaaagctcat tatcttcacg gcagaattcc 60
ccaatagcac gtacatcaac aaggttccca gagtctctaa tttgaagaat gtgtatagtt 120
tgatagcgaa gtgatacaat tgccaatagg tcatcataca agaagacccc catattatgg 180
gttanattaa cgaagtcatt actgaagacc ttcttgtcca agatctctcc atcttccagt 240
ctaatttagt aattaatagc tgagaaatgg gaacaataca taatctagag tgaacagagt 300

atgat

305

<210> 20126
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20126

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aaccacaact ctgccaaacc tccaagctac aagcacaagt gatgaaagta ttgcatgccca 120
acaattcttc aaggcatctg cacatgaaaa agttttgtgg atttatttaa tcaccatgat 180
tacaagtttt tgaagaaaac ttcgatacac aagccagagg ataacgcagt gaaactcatg 240
taacaataat taggggggcat ttgttttaag atattgagca agatttttaa aaatgtgaac 300
ctaaaaatat cacattctga tgtttaatac aagttgtaa aaataattaa tttttagaaa 360
tatattctaa tgaagaatat tcttaaaaat aaaatttcat aacttanaac aagcatcctc 420
ttaacatatc at 432

<210> 20127
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20127

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tctagtattc actttgtccc tttagatgat atcttcatcg ttaaggataa taataaatga 120
caagatttga ctggtaagaa ttgtgaagga taccattgtg gtggtaaadc attgagggtta 180
taacatgggt agctatagaa ctaacgaaga ttgagtttcc aatgaaggaa gtaaaatgga 240
gctcaaaaata ggctcatcca tgtagagca ctttatggac tttgatctgg aggaagatag 300
gaataaagag gggttatgga agcangaggc agatcggaag gcacgacaag gtgttcaatc 360
agagaagaaa catttctatt ccact 386

<210> 20128
<211> 429
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20128

tgtgcttcga ccaacccagc ctcaatttac gtgccattgt gtaagttctt gcttaaaagt 60
gcaaccttca atgggaaatg taacaacaag ggtatttcta taacaattga tggcactttg 120
gtggctcctt cagattatag ggtcaccgaa aactccggta actggttgga attcgagcgt 180
gtcaacggag ttctgattca cggcggggcg cttgacggcc aaggcactgc cttgtgggat 240
tgcaagaact cgggcaaagg aaactgcccc agcggagcca cggtatgtta aattaattaa 300
tttaactctc atggattgaa cattattcgt tgacatgcac aatttcttgc tcccattatt 360
attgttntga tttgatgttg gaggtggagt tgtggacttg gtgattactg agagtttctt 420
agtggggga 429

<210> 20129

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20129

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ttctaaaagt tatgtaaact taggggcaag aggttaacat ttgtaaagga caagcccttc 120
gtcctctcct ctccccaatt tcattcacta ctttataagt tgggtggaagg acctgctctc 180
atcacaacag cagcagccca acagtgtaat taaaatagag acagcttgga aggtgggcag 240
gggagataaa tttagatttt gggaggaccg atggttgga tctgaagcac tgctaatgga 300
gaaataccca angctgtacc aaatctcgtg tcaacanaat caaaccataa tgcnagtgat 360
gagtcacttg agtagcggat gggaatggag 390

<210> 20130

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20130

ntgcaacaaa tagtggctaa tttgagggcg atccaattgt atgagggggac ccaacatcta 60

gaggcctgca tgcgtgggtt gctagttaca tgtattgctt gtcgctggag cagacccatc 120
aactgcccta actcttttag actggtgatc cctaggctct tgaccttgac ttgatagaac 180
ctctttttaa gcgaagggtt ttgacttgat cccatgtttt actaaagtgt gcgaatcaaa 240
acttcaacat ctatcatggg tgggatggat gaatgcatga agaaatgcat atgacacaaa 300
tgcaatttat gaatacggga gcccgggaaa ttgtctcctt cttagatata acgtcttgng 360
gtagcacagt gcccgacgta tgtatttaag aagggtgacac aaaccctcca ttg 413

<210> 20131
<211> 344
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20131

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tctattatat tctcttaaaa aaatcccaaa taacaataac tacacattta ttcattataa 120
aagtgaattg acgtgtttgt agaattaatt ttgaattaac atggctctat agaattgatt 180
gtaagtaaac ataagtttgt agtatataat atgattattg tttggaaatt tgctacaaaa 240
actgatattg tgggcaatta ctacaatgac ttgagttcaa gaggacacat tgaacaaata 300
gcatgactaa taatacgact caagtttagt tngattcaaa agct 344

<210> 20132
<211> 412
<212> DNA
<213> Glycine max
<400> 20132

tacccccact attaccacaca accaccacc aaacctttct tgttaagaaa atgacatcgg 60
cagaaatgca cttgagaaga gaaaggggcc tatgctttac ttgtgatgac aagttttccc 120
ctagccatcg ttgtcctaata agcaatatt ttgttcacac gtgggaagaa gaggatgaac 180
ctgcattaca accagatcca ccagacgagg ttgagacagc tggtgaccct agtttgcaag 240
atcatcattt gtcttataat gctttaaaag gctcatcaag tcttggaaca atgaagttac 300
aatgatcaat gcatgtgatt gcgattgcag attctacgac atcacgtgag cctatatatg 360

cccttataact tactatctac cgtctgaagt acctatagaa ccattctaatt tg 412

<210> 20133
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20133

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gatactccat aataaaatgg tatattacta ttattattat ttgttctaatt aaatcattta 120
ctattattat tttatTTTTat ggcttgcgaa ataaaaagaa gataggaggt ttttctagag 180
gtgaatgatg agaccattcc atgcctcttc aattaagtgt ttttcattga atctctatat 240
ttttgtcggg tcaataacat atttttgtta tcagctgggtg atcttattga tgatgagact 300
tggcctncaa ttgtcctaatt cattcatcat gatattgccaa ataagatacc gattcatgct 360
c 361

<210> 20134
<211> 425
<212> DNA
<213> Glycine max
<400> 20134

tttcgattca ttctatgtac ccgtagtggt ccacattgtg tttcgtgcat ttttattctc 60
gttttgttta ctttttatac cccctctta acgtgcttaa gccattttac ttaagtcatt 120
tctcgcttaa cttaaaaata aaataaattt ccaccgaacg tttgaattgt attatccgtt 180
aacttcgggtt aaaataaatt ccgaccgttc ggctgtaccg taaccacgtt ggaaatcaaa 240
aaaggaggta aaaaataata taataataaa aaaaacatct tttagcaaaa taaagcggaa 300
aatcaatcgg acgttttctc tttgggattt ctcatctta atcgaattga ttaataacga 360
aagtgaaact agggctaata tcaactcgcc tagtcaagct cgtccacaaa aataggcttt 420
tgaag 425

<210> 20135
<211> 338
<212> DNA
<213> Glycine max

<400> 20135

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agtttattag ttgtgaaatt tgtaagactt aattcacccc cccccctct taagttattg   60
aggccacttg tccaacaagg acactatctt aatgagctta agcattatct cgatggtagg   120
tatatttctc cttgcgaaag agaccacttg ttgttgaaag attgaacttt cattttctgg   180
tttgattcaa taatatttga agatgatgac aacattgatg ctctgctctc caagccaatt   240
gttaaggagt ccatgtttac ttggctacaa gctaatagca tgttcaatga aggacaacat   300
ctaacatatg tgcaattcat aacaaagttt acatatgt                               338

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<210> 20136
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20136

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cgttacagaa cttaggaaaa atcagaacaa gcttggtgta catcgttcgc gtgtacgata   60
tccactcgac aagggtttgaa gtagaggaga ctttcaatcc tataacgcaa cgtggcggac   120
aaaaatgggc agttaacttg aatggccatt attgtcaatg cggaaggat tctgcgcttc   180
actatccatg ttcacacatt attgcaactt gtgggttacgt gagcatgaac tactaccaat   240
atatagatgt tgtttacacc aatgagcaca tgttanaagc atactccgca cagtgggtggc   300
ctcttgcgaa tgaaacggca attcctcctt ctgatgaggc atggacacta attcctgacc   360
caactacaat tcgtgcgata ggtcgggtcat aatcaacatg gataacgaat gagatggatt   420
ga                                                                                   422

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<210> 20137
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20137

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atcttttctc taagcttctt atccaaggca ctctcttggg ggtgaaactt ctctttccat   60
ggcttattct ttagtagatg gtcctcctt tcacctcttc tcctttatct tctgttacat   120
ctccatgatg aaaaatcacc attgaagggc ctctttgaag ctcaaagatc cagcctccat   180

```

agaaggttct caagaaagct tccatcagta aatgtagcca ttaacttatg cgtaattnta 240
atattttaaa acaataatat gttattttctt ccaacagggtt aagagcatca ttagtgggag 300
tatgtactca atagcaatgg gagataaaca tactaaaaga accccacact tgtgtatcaa 360
caatgttatc acaatatcac ataaagc 387

<210> 20138
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20138

tgtaggatta tggggtaccc atcacatgtg gtactatgtg gcggtcgggc gatggtgcac 60
aacaagtttt ccacatccac aaatcgcgca taaatccacc atcccctgtt gccacacctc 120
aactgagctc acgtactccc acgtagccca taccctcggtt tttctcaacc ccgtgtcccc 180
atcaatcctt ccaagcttcc ccaacatcca ggtaattcat catccaaatc atcacaaact 240
aaaaaatcaa gcaaaatagg gcaaaggcag aaaactctgc cccaaactca aaccaaactc 300
acagcttttt ctcaactaaa gaccccgta acatttcctt cgttccaatt tgtaaccgg 360
tggattggac tcgaaaatnt actggaagtc tctagtacat aagtctacat ttg 414

<210> 20139
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20139

agcttttgct tttcactaac ataagctcat ttaatattca aggcttgtca ggtttcagag 60
gcttaattcg gaactatgat ggataatgta attccctggg agttgatgtc ttgatggttt 120
atactttacg acacttcagt cgatgacact tcacttaact ttcttggttag ttaaaatctt 180
tcactaatca gaatccttcg taagtagtcc ttttcgatat attcataacc aactatgata 240
ccactcttag caccgactg ctttcaggat taatgactgt ccttgtaaac catcaaaaga 300
ctcttttaac atactttntt ctcatcaca cactttccag agnactctnt atgagattac 360
ccatctcata aatatntcaa gacaaacaca cttaactgtg aaattctta 409

<210> 20140
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 20140

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tgccatttgc attattagag aatctaccgt gagcttttct aaaaaaccac tatgaaaaat   60
aaattaaaca aataaaaaaa ccacaattaa aagagggtat gaataagata tgcataatttt  120
tcaatggatc ctaacaatgc acaaaaatga gagagataga aaatggaaaa atgatctcaa  180
ggtaacaaac aattcatgag cacttgatca caaaatgcaa agtggataag tagttaagtc  240
aaaattaaga atgctccatg gtgatagaaa tttttcaaac aacactcaac cctgtcaaatt  300
gtgtatgggt ttgtgtttac acttaaacac cacatgtaat gatgtaagct ccatttgagc  360
ttgtatgcct acgatcttct tcatcaatgg attcattgac ttcttgaaag gtgaatgtgc  420
gcagaatgga                                     430
  
```

<210> 20141
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20141

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agcttctctg agtattcctt aaagcttatt attgacaaaa ctttgcacat aagtttaata   60
ttgaactatt tttcaaata ctagacgaga gtccataggg cccttaatca cacatagaga  120
tagattacct aagtggtaat tgcctatga aggcccaagg tccatggccc aaaaaggttt  180
gtataaaaaa gttgagaccc ctgggtaaag accatttctc attcttgcac ttactatcct  240
atattattgct tagagtcaaa acttgacttg ggcatcaaag taccttttgt tggtaaccccc  300
ctttggacca aacactanag caagacgaat agtgtaatga cccgcctcgt cgctacgata  360
tcacttatta taaaatgtga catcat                                     386
  
```

<210> 20142
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20142

ntaccggtat ccccatcttc agaaaatgga ggtgtttatt caagtcactg ctatgctcgc 60
tggttggtta atccaaccta gccatagtct gttctcttct ccgatactcc tagttaagaa 120
gaaagacgga acctggcatt aaagggcact aaaggaaatc acggttaaag attgttttcc 180
tatgccaaacc attgatgaat tactcgacga tttggggccaa gcatcatggt ttttgaagct 240
cgatttatgc caaggatttc atcagatacg tatggtcaag acttacattc ataagacagc 300
ttttcaaatag cactagggac attatgagtt taaggatcatg ccctttggcc tttataatgc 360
cccttctact tctcaagcaa ccatgaatga tgcgctccaa ccatttctga ggaaatatgt 420

<210> 20143
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20143

tctagcttgt tcgaagatcc tcgagacgtc atacgagggg ccaatctttc ggaaaagact 60
ttcaagaagt ttttgaagat ttctcttgat gaaaactata acctgcattc ttttgagtcc 120
aaccattccc acttctgcac catgggggtt gttacctggt gggagaaata ttattcgacc 180
cgttcagttg gagacactac tatcatgacg tgcgactcag agagtgggtn tataacaacca 240
acggtcgaga atatccgctc aaaccttcaa gctcgaggta ttaaattcct tttgactttc 300
tanattgata tgtactattg gcttctctaa tattcttatt tcaagcaaaa caatcatgac 360
gaagaanagt ggctgaacgt ctcgagct 388

<210> 20144
<211> 427
<212> DNA
<213> Glycine max

<400> 20144

ttcctttgag aatccacgaa gcattatttc tcttgtttac caaagttaat gtcgctgatt 60
gaatggcagc aaaaagtgc aaaatagctg tactagagta ttgacatggg tattttttgc 120
taatctttgc ttgtataatg aaccatgaag accacaggag gcaacctaga gtcagaagta 180

tggagcctac aatccatttc tctaacttgg cagctggaag cgtgcttgta attttgtttg 240
ctatgtgttg agattgtggg ttgataaggg gcattccttt ataaaggacc aataacaaag 300
ctccaccaat gcacaccaa gttcccatga ctttggtgt accactcttg ctttgcattg 360
tcaccttctc taccctagaa aaatttcaag ccaaggatc aaaagtattt ttcttgtatt 420
ccacaat 427

<210> 20145
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20145

agctttatgg agattcatgc atcagggaa aatttcactt taaaagtggg tccaattgg 60
cttcctaatt ttcagctttt ccatttggat gtgagatcat ggcagttagg tccagcttt 120
ccatcgtgga ttaagtcaca aaacaaactt gaatatttag acatgtctaa cgcagggatt 180
attgattcta tccacacaca gatgtgggaa gcattcctc aggttttgta tttaaactc 240
tctcataatc acatccatgg tgagagtggg actacattaa agaatccaat atctatcccc 300
gttattgatc taagctcana tcaattgtgt ggtaaatacc ctatctttca agtgatgtgt 360
ctcagttaga tcttt 375

<210> 20146
<211> 428
<212> DNA
<213> Glycine max

<400> 20146

tagagagatt cccgatctga gaggtactg ctccgtctgc aacagctctc aggtcaagat 60
acaccaaatt tgagagattc ccaatctgag gaggaatctt ccccatgaat ccagtatgag 120
agaggttgag gtgagtcaag gaagtcattg tccaaggaa agaaggaatt gacatacctt 180
ctccaaggta ttcattggcg ctcaagtcca agtaattcaa atgctttaaa tcagccaaac 240
aaggacttat ctctccacca aagctccatc tcctataagc ttccaatca tcattgaaaa 300
tagaatctga agagttgagg tgaagctgaa gaagatggga agtaaggttg tggcagagga 360
ctccatacca gtggcaacag ttggtattat tatgattcca agaccaaagc ctattggaag 420

gatctatg

428

<210> 20147
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20147

agcttgtctg gttcttccat taattggagt cccaccatt gtttctgctc caactctttg 60
ctctttgttg tctaggaaga gcacatcacc ctcaaaattt tgaatcctca acatgataaa 120
aagactatat ttttaagcat ggtggtgcaa tgaaactgaa gaacaagagc aacctatgat 180
ttanaatgag ctggagattg gaaaaatgga tatagaaatg agaaaaaac aaaatggtac 240
cttcaaattt gaaggaagtg gtggtgtgga tgtgagtgat aatggtggcc agttctgggt 300
tttggtgacc attttgaagc acaagcactt atgtagagaa gcatatgaga gagagagaga 360
gagactatga ctaat 375

<210> 20148
<211> 444
<212> DNA
<213> Glycine max

<400> 20148

cgaccttaga aactcagcta tgcattgaag ttggatcttt gccttcagtt tttacacgtg 60
cctacaattg atatggcat acatccatca aatatctcta attaaaatga aattatgcgg 120
ttcattacag aaaataaaat atttactttt tatatgagaa aatcaaagtc tgatattatg 180
aatacatata taataaaacta gagtaacacc cgtgctatgt agaagtaggg gaagaaaaaa 240
gtttcaaata gttgctccat acttttaatt aaagagagt tagagtaata aaaaaaaat 300
tggtgtgtag gccaatagca tttttatttt ttacagata tcaaccataa ataatgtat 360
gtaattaatt aagctagcaa catttgtctg gttcaaagta gtcctgaaca ttaaattctt 420
ctacaattat tgggtgtacat ttat 444

<210> 20149
<211> 292
<212> DNA

<213> Glycine max

<400> 20149

tgagtat tttt tcccttcact tttttgcttt ccattttata aatttgtcat attcttgata 60
aaatttgcag cttcatcatt taggccaagc actgtcaa atctatggaatc ttatggacac 120
atcatacagt gagcgacaat ctttttccca tggtaatcaa ttgttgtcac tctcatctgc 180
agaagtaaca gatccgggaa gtcttactct agaaatagtc cagcaggtag gtatctaact 240
taa atgatcc atagaaaata tcggaaactc aaatatttaa aaagtctaca ac 292

<210> 20150

<211> 429

<212> DNA

<213> Glycine max

<400> 20150

tatgtgaagt gaccaa atga aga atgaaaa tgagttgttc gatggtgcat gtggggggtt 60
tgtgtgcct atagatgcag gaatcgtagt taa atgggtt ttaagctact gaagtgaact 120
atgtggatat ggcttcttgt gcattagaaa tagccaagta aaattctgaa gaactactta 180
ctaccttgggt attgagattg aggggttgtt ctgttcccag cttccttctt cttccgta 240
tcaattat tttt tattcaactc tatcgcacct tgctaaaatt ctttaagctta ggctgttgaa 300
tttccttttg ttcaattata gaaagagaag gaaaatatat tgatttgact cctgagaaac 360
aggggttgta ccggatcaag aaaa atgttt tggaatcgga tgggtgtttg ttgtgcctaa 420
ttgtctata 429

<210> 20151

<211> 365

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20151

agtcttatct tatcatttag taaaaaaaaaaa aaagtgtggg gacagtgtgt ttcttttatc 60
tgtcaacttt ctcccgtttt ctcaattaaa atgggtttta tgatgacca cgttatggaa 120
acaaattatt gttctcacat anaatttgta tccattcgct taatcaacaa catcatcgct 180
aaagagctta aattggtggg catcaagaac caatttcctt atagaagaga atgcgcccat 240

tattccaaca cccgtgaaga ccaccataat tgagggtgtta atccaataag tgaaggatga 300
 atttggaggc ttgtatgtca tgttgtacat aagcataggc agaacgaaat ccaaagggat 360
 gaaac 365

<210> 20152
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20152

ntccaagatg gccaaagttca agcctaacga tgggttattt attgaaaggt gcaatacaat 60
 tctgtgtatg acattcaaatt tttactatgt tagtaggttaa gattaaggat tgggcagtgt 120
 tgtcatggac tatcgaaaag atttccaagt aacaagaagc atccgatgat gttcgataga 180
 attcatatat tgttgttgc ttagaaatat atttgttatt taattccaat tatattttga 240
 ccaatttcat tttacgtttt taacaaaact ctttataatt ntagtctgct ataataacg 300
 aatcattgta gagtaatatc ttaaaatttt aatgattaac taagatcagt gtattatgca 360
 tttcaattaa tataaaaaact tgtatatctc atagtatata aaaacttgca tacttcatag 420
 gaaatatttg ataa 434

<210> 20153
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20153

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 aaaataaata aatttttggtg gataaaaatc gtaacaaatt gtgaaatcgt aaactcaatg 120
 aacaaagagg gactaaaagt aacttttcga aaatttgagg gactaataaa aataattttt 180
 tttgagaact aaaaaatact taccgaaatt tgaaagatta aaaatatatt taagccttaa 240
 atcaatctta taaaatcagc ttgtaagatg aaagatgtcc cacacttata tacactaatt 300
 ngactatatc tctagacaat gtgatctcga acacaacctc tcatgtcaaa gataggatat 360
 ctcgtgcgtg aagtttgcac gattggaagt tatgggtagt gtgatagatg tccg 414

<210> 20154
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 20154

actcagcttc ctttaggaacc ttgaaggata tatatatattc ttgcttggt tccttgtatt 60
 acaacataact ttcatttcca ttgatttgc accactccac ctttcacaca gtaggtaaaa 120
 cctttggagt ccatggctcc catcgagatt acattcttct taagctatag aacatgaaaa 180
 cattggttaa agttataaca attccatcat gcattttgat ttgtaagaac ctatgccaac 240
 taccttgcaa ggggcattgt atccattaga gcaataccac taaattattc tcataggtct 300
 tgaactagct tttgtgtgga cacatatgat atgaacaacc tgagtcatcc attatccaaa 360
 atactgttgt tgttgatcaa caatcgagag taccaaatta gttttttgat gaggaattgt 420
 tggatcaagt ggctcag 438

<210> 20155
 <211> 309
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20155

agcttgtctc atttagatcc aggaaagaca aggcggttga aggaaccagt tctgctcccg 60
 aatatgacag ccatcatttt atgagcattg accaccagca acgcttcgaa gccatcaaag 120
 gatggtcatt ccttcgggag agacatgtcc agctcangga cgacgagtat actgacttcc 180
 aggaagagat agttcgccgg cgggtgggcat cgctggttac ccccatggcc aagttcgacc 240
 cagacgtagt cctcgagttt tatgccaatg ctnggcctac agaggagggt gtgcgagata 300
 tgcgttctt 309

<210> 20156
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20156

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 aaaagatgta actcttcaaa aagggtttttg actttttcaa attgggttta agtttttcta 120
 aaagttataa ctcttctaaa tgggtcttctt gaccagacat gaagagtcta taaaagaaag 180
 gctttgtttt gcatttcaat gatcaaaaac acttattcat acaatccttt acaagccttg 240
 aatctctttg aacttcttat tcttccttgt accaaaagct ttctgaagtt ttctgggttt 300
 ctaaacttg aaaacttgtg ctattcatct ttctattctc ttctcccttt gccaaaaaga 360
 attcgccaag gactaacgc ctgaatctnt tttgtgtctc tcttctccct tttccaaaag 420
 aac 423

<210> 20157
 <211> 390
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20157

atttttttat gtgtctagct actatataaa ataacaacat ctatatgggtt atttttttaa 60
 aagaaaaata gtgaaaataa aaatatgaat cggtgaaatt aaagaaaaag tatagtaata 120
 tggagaattg agttgatgat gatgacctgc atgagcatag aaccatgcag ggccgagtgc 180
 ttgaatgtgc ctaaagtagc gtgcggtgat ggctcccatt ggtaacaaaa tgccccacga 240
 tatggcgтта acggtgccat ggatcactct caacgtcgtg agatccgtgt gctgtggagc 300
 cgacgaaccc gacaatacgt canaggtaac aatggaagac agatcggtgg aagtagttgg 360
 atgaatgggtg ggagagtagc cctgaacgta 390

<210> 20158
 <211> 424
 <212> DNA
 <213> Glycine max
 <400> 20158

tgtgttggac cgtaatatat ctactcctaa gaaatttatc caaaataatt attattttta 60
 ttttttttaa tgtaatatta attatttttt tcacttatac ttttatatat ttaataatca 120
 actataaaat ttaaaaaataa attaatagatg taagattaat tttataaaat tattattttt 180

ttcatttttt ttattttttt ttcttaattt atataaaata acttaggatg ataattttt 240
taggatgaaa tatgattaaa caaaatctat ctacagtaa ggggttaacag tccgagcaag 300
aataaaaaata ttaaaaaata tgaaaattat aaaaaacaaa atatagccaa aacctacgtg 360
caagagagtg acatgggggtt gcaagataat aaatgactga tgtatcaatt atttgtttac 420
ttaa 424

<210> 20159
<211> 311
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20159

agcttccaaa atatccaaaa aattcaattc caattatcat gaaaccaccc taaaccaaga 60
aaacagagta gaggcagaaa actctgccca agactcatte aaattccaca gttttcccta 120
ctcaaatacc ccagtaacat tctcttagtt ccgattcggtt aaccattgga tcaccttgaa 180
acgtttactg gaggttccta gtacataaat ctacattntg accgttggga tctactagaa 240
aatatctaga acacgagata tactnacctt tccgtgactg gtgctgcaca agcattnttt 300
ctgcacattt g 311

<210> 20160
<211> 401
<212> DNA
<213> Glycine max
<400> 20160

tgtaccagcc actaaacctt caatttcaag tgtaggtctt ttctaatttc ttgaccttcc 60
tcctacgaga gaccaacttc aactcagtat gttcctgtaa ataattataa ttaattagat 120
aaattaaaat tgtatataaa atttaaatat gttataatta aagaaataac tacctctctt 180
gccacactt tggctaccac atgattaaca tatgatgtca aactaatgt atcttggggc 240
ccacctggaa aacctatga atcatcacct acattctttg taattggatc atgaggatcc 300
tcatgagtct catcagcagc atcatcgata tgcccattat cctcgacaat agttgcagtt 360
gttcattatc tacgtgtcga cactatcaat cttcgacgct g 401

<210> 20161
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 20161

tatctcttca aatcattttg aaaaggcagc aactacctat atatatgggg gtctgatttc 60
 caaaagcaag agagagatat tcccagagaa cttcattgtc aaatgctctc tcaacaactt 120
 ttgggcgaac acttgccaat ctattaagag ttcattccaag aacttcaaat gtaatatcct 180
 tcttttaaag agagaattct tcttcttctt attaaaagag attgattaat ggaccgagag 240
 tctcttaagt tgtaaggatt cctgaaca 268

<210> 20162
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 20162

tgataaatct atatatgggt taaaacaagc ctctgtctg tggtagctta agtttcatgg 60
 gataatttct tcatttgggt ttgatgaaaa ccccatggat caatgcatat accacaaggt 120
 cagtgggagt aaaatatggt ttcttttttt atatgtagat gatattttac ttgtagccaa 180
 tgatcaagtt ttgctacatg aggtgaaaca atttctctct aagaattttg aaatgaagga 240
 tatgggtgat gcatcttatg tcatcgacat taagattcat agagatagat ctcgaggat 300
 tttgggtcta tcacaggaaa cttatattaa caaaattcta gagagatttc agatgaaaga 360
 ttgttcacca aatgttgctc tcattgtgaa ggggtgatagg ttttaatttga accaatgtcc 420
 aaagaatgac t 431

<210> 20163
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20163

agctttatag cataaacgag attntgcaag aaattaaaat tgcaaaaaga gtttgatcct 60
 attttaatta atgacatata atgtttattg tataatagaa cctaaaatgt taattactta 120

atttatgttt ggactggcgt tcatttggag tgttggtcat tatgtgcacg acagtgtgtg 180
 ctctcatacg gatccaacgg tcgattgtaa aagacacttc caaaatactt tttgaaatct 240
 gattttgaga acttcaagca aactcaatca tgtccttatt agttaaacaa agacacttat 300
 taattaaata aaaagtaaag caatttcatt tattatatct aattccgtat taactactta 360
 tcgnaagtac atcaccacaa cagacatgca catatgtaca cagtaattaa 410

<210> 20164
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20164

nttgccaat atagctttga aattntctcc cccttggtca caaccaagtt acccttggtg 60
 agttttcact ttccagaacc atggtgggta tcataaccag catcatcaag tacctgcaca 120
 gagatcaaat taaagcgaac atctagagca tgtttcactc ctctaagtag caactgtatt 180
 cccatggttg tttgcaaaca aacatcacca acaccaatca ccttggacac gtcatcatta 240
 cccatcttca agactccaaa atcacctgga gtgtaagatg tgaagaactc cttcctgact 300
 gtaacatgca atgtagtacc actatcaatt atccacatat tcttatcaga tacaagatta 360
 agcgaatcag ggtcatggag aataacaaga tcatcactgg tagcagtagt cacacagtca 420
 tcatcatgat 430

<210> 20165
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20165

agcttgtttc tacaaataaa gggcgagtct ggggtaagaa tgaatgaaaa aggtgaagat 60
 tattctatgg atgaatactc tcctagaacc taagattttg aatcctagag aaaccatgaa 120
 ttatttgcag cctaaccctt ttacaagcct agaaagtcc tgggattcat tttgtgttca 180
 tggctgtatg atatgagaag aaatgcaaag gttggaactt gtgttggttg tttatgatgg 240
 aataagccta aacacttgag cttgagttaa acaatggctg tgaggttttg gttgatgatc 300

cttccttgat ttttgtcatg cttactagct tatttcagct gtgattctaa tgcttatgct 360
cctatctttg aaaattgcat gcttgtgaga agtaattgat ntaagcattc catggtattc 420
agttcata 428

<210> 20166
<211> 426
<212> DNA
<213> Glycine max
<400> 20166

tggactcaaa gagaaactta gaatggctct agagtattag taaaaaaact ataaaataaa 60
gactcaacaa acctctagct ttggcacttg ttttcacagt aattttcaat tgaaatttcg 120
gaactaagat tgggtataaca taggcaccaa ttatagaata aattttgagc caaaacaaca 180
agcgcacttc cctttcactt ttttttctct ggatactgat ttttctgcca acttgtgtga 240
tttttagtat tttttctgtt tatccaaatc acttgggtct ttttttataa cttttttcca 300
gatgtctagc aaattcagta aaactttcag ctcaaaattc gaagtaacca attctcagta 360
atttttacaa gtttgtatgt ccaagctgcc agcaccaacg attttttttt aagcatggta 420
tattga 426

<210> 20167
<211> 369
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20167

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agcttgtaac aaatcttcta cacttggagt gatcacctgc agtcctcttg aacccttacc 120
accactctg tcatcatgcc gacactcang aagcccaaca actttagcct tctctaagta 180
ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcttccgg 240
acgatataga ttctttgtat acccttttaa gatcttcatg tatcgctcaa ccgggtacat 300
ccaccgtaga taaacaggac cacaacattt gatttctctt gaccagatgc acatcaagtg 360
aatcatgat 369

<210> 20168
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20168

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tccattgttg agtttttgct tcccttttca tgctttatnt cactccccac aagtaagtgc 60
aatttccctt gggtatttgg ctctccattg atgtgttttg gtgctttagt tgctcatttt 120
ttgcaaaatt cgtgaagcaa tttgcatcta aatccatgct tgttttgtgg agttgaggat 180
ttgaatgaga aggccttagg cctatgttgt attctgaagc aatggggcat gccacattgc 240
ccccattctc ttgcaattta tgtccaaaca tgtgcccatc aagtgctcgg tgaaatgccc 300
caatgatata tgaatatgat tttgcaaaat tgggatgggtg gggctgtttt gtgtatgtag 360
agacagcata ggaaagtcca aatagatgcc caaatgcaat cccaagctta ngaacccaaa 420
c 421
```

<210> 20169
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20169

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agctttgcga aaagcttgcc gctagagctg acccatcaac tgccctaact ccttaaggcc 60
ggtgacatct atgcccttaa tcttgacttg atagaatctt tttccgattt gatttgtccc 120
catgatttac ctaaaatggg gtgaatcaag gctcttatat gaatgatgca atgcacatgc 180
atggaacgaa aagaagaaaa acaagtggta gtttacatat acgagaccga aaaagatcca 240
tctttntaat actacgtctc angcattgcg gcgccctaac gtatgcatta canagtgcg 300
cgttactcta aagagacaag atatcactag atatacagca caactataat ttatgtgcta 360
```

<210> 20170
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 20170

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tgatagagta ctgggaaaga ttcaaaaaat tgtgtgctag ctgtcctcac caccagattt 60
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ctgagcaact ccttcttcaa tatttctatg agggacttag caacatggag aagagtatga 120
 ttgatgctgc tagtgggtgga gctcttggtg atatgacccc tgctgaggct aggaatttga 180
 ttaagaagat ggattccaac tccaacaat tcagtgaag aaatgatgct attgtcctta 240
 gaggagtcca tgaggtggcc acggattcat cttcatctac tgaaaataaa aagcttgagg 300
 gaaaacttga tgccctgggt aatctagtaa cttagcttgc catgaatcag aaatctgcac 360
 ctgttgcaag agtctgtggt ctatgttctt ctgcagatca ccatacagat ctttgtcctt 420
 ctttg 425

<210> 20171
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20171

agcttatgat aatgaagttg ttacaaattt tatcttgaat gaaactgtgc caaaaataga 60
 tgtcatgaag ttgttacaat atataatgca ctttaataacc ttgcaaataa acttcagata 120
 atcttaatct ttggaaatgt attgatatta ggacaaatgg tcatcacata tgcaacaaac 180
 atatagccat cctaatttac tcagttacat gaagctngtt atgttcaaaa tatcacacat 240
 gcaaattgat gacaccttat agataatagc cttagaagtt gattatcatg actcanaatt 300
 aagggtttca ccattacact atcatatcat ttaaccacaa cagagaattt aatacaaagt 360
 cacactaaac ttgagttaca tcacatctac ttatggcact aagtataaac attgcatgaa 420
 gtat 424

<210> 20172
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20172

gcgatggccn ttgaagacct cagtcatacc ngcgacacta taaaatactc acgcttgagg 60
 aacaatgggc ctaccctaca cctgagatgn gtgattcaaa tgtgtccaat gccccacgga 120
 tgttttattg gaaattaaaa tccttcnaaa aaaacaatat ataaattcgc ccaataaggg 180

ccaaaatgaa gtgccacagg tgctctaaaa ggtgaaggag catttgtcag ccccaaaggg 240
 gtgaccaaaa actcctatat ggccctgggg tgccgaaaag tggtttggtt aaattaagcc 300
 ccttcatctt aaatatttgg tgacctccta taggcgcact ttttaaaaca ccaggccctt 360
 cctattattc atctactcct caatgggtggg gtggggggtta atccttaccg actcgcggtc 420
 ttatttgacc attcccccaa cagcctgtct cctcctcttt taccacg 467

<210> 20173
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 20173

agcttgtggtt ttcaaccctt atcactgctt tatgtaaagc tagagaagtc acttctgatt 60
 ctaggacact ggagagtctt caccocgcca ttaatttggc atatgtgaag aagaactatt 120
 ggaatcttga tgatctaata gtgactttca gagggcctat gaaggccaac gggaagaaat 180
 cgaagactct cccatctttt gaggttcctt ctaccacatc agcaccaact tcttcttacc 240
 taggtacttc tgctcatcac caacttcttt agattttctt ttacactaag atgctcatgc 300
 catgatgcaa gcctacct 318

<210> 20174
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20174

ccgctntttg gagtagaaac atgggaccaa cacattttat tttttaagtc cgtatctagt 60
 caagatctga gagaccatac aagtttccta gcggtttcta attatatggg ccattaagtc 120
 tatcatatgc tgacaatagc cgagaagccc atgaatttct tcggggcccg agtaggtgtc 180
 tgccattgcc ttggccttgg ctaataatcg aggaagttct tgactcccgt tcaaggtaag 240
 agcaaaccgg tccatccaca tgggtgcctc ttgggtgtaaa gagtcogatca cccttctctt 300
 agcctctttt ttcgcgtata ctagggcata ctgcgtccgcg accctatgct cgtgggcccgt 360
 ggctagactt aactcttctt ggtacttggc aatgatagct agcatgttgg tctccgtctc 420

gcataaacgc tgag

434

<210> 20175
<211> 193
<212> DNA
<213> Glycine max

<400> 20175

catggcgggtg caaagctgac agtctctgtc tggagagaga aagagatacg cggggaatgt 60
tgctcgcttt gaggatggag ttccgcgcga tctcggttct tcatgtgcgc acacgtggca 120
agttgccctt cccacgctg agattgaatt ctactgtgt acatgtatca tagggtccct 180
cacaccttgc caa 193

<210> 20176
<211> 566
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20176

tgtacacgcg atacacgtat ggtatggtaa ttacgattat cgcatatat aagagaantg 60
tgacgacaca canaccaca agaggagggc attgatgacc tcgatagaca cgcccgtan 120
nacaaanaan accccagcat gcatgaaaag tggcaaagca aacaaacact ttcttctaac 180
aggcatcacc agccgaagtg agagaaaaca aacacttgca atgaacattc acggcaatgg 240
gcaaaagcca gaacataatg ataacgactt acaggagca aaataagtga actgaccgct 300
gctgatgatt agaaatcggc atataagatg gataccagcg cgcaacaatt cactgcacgc 360
aatgaagcaa gaatacctag atgagacctc gaggagtga cggaatagtc gaaacgccac 420
acaactaagg agctgagaga aaacgtgatg gacatgctaa gaaagacacc gaacatgaaa 480
tgaatcacat accatatacc agaaccacag acgaagcacc ataagactaa acacatcacc 540
aaaagagcga cgccgtgcta caagac 566

<210> 20177
<211> 170
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20177

ggtggttatg gctcgccaat ggaggtggtg gtgctgaagc gttgangagg taaaggctga 60
aaggttgagg aacgagatat ctcatggata cacatattgc ttaggcaatg cctggacgtc 120
cactgatgag acaggaatag taacggtgac agataggaac tgatctacgt 170

<210> 20178

<211> 504

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20178

ggaatcacag cagcaacaan tatgtaatag aacaaacaac cnccccaggg attgaacttg 60
aacaccacca aanaccaact ccagaactca aagcttttat agacacacca aatcttttga 120
gcaaagcagg atacaatcag gacattcctc ctcttgaaac tcctatcgac cactcgctat 180
cataagagga gaatcacgc cttttcaatt tatgcaatct atactggggc ataccgata 240
ccctatttta taagacagga ccaaacttcc gaagttatgc aagaaattcc tctcttagca 300
ttactaggaa cacagtaata gaaattggcc atcacaagc ctctgtagca accttagcat 360
ggacaatacg tctatatgta caataaaagc gcacactcgg aatcatagaa acaaaattac 420
tcaactgtac aacaatacga ccgcagaatc agaagcgtca tacctaacac acgaagacct 480
ctctcaact gcatacacia accn 504

<210> 20179

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20179

tggtgagctc tgatatcgca cttggaaggg gaatatctat caatacgacc ttataaaata 60
tcacatgaag cccaaaacac attatgtcat attatcagga ggttttaagg aatacctgga 120
tccgtagaga gctngatcaa ctgcgagcgg aatctaagag taggcacaga caatttgat 180
taatgacctt gctcaaccaa gtcacattct tctcttatga gaccttcgct ttctcttcag 240
atggtgagag gacgaattgc ttattgagtt tgtgtattgg ggaccataac catatcttat 300

gtggtaaacc tattatggta ccattatccc ttagtggacc acactgattc tcgctcatta 360
agttcatatc cattcttctg gcagtcta g 391

<210> 20180
<211> 434
<212> DNA
<213> Glycine max

<400> 20180

cgtaggatta tggggtaccc atcacatgtg gtactagggtg tcggtcgggc gatggtgcac 60
atcaagtttt ccacatccac aaagcgcgca taaaccaccc atccccctgtt gccacactcc 120
aactgagctc acgtagccca tatcctcgtt tctctcaaca ccgggtcccc atcaatcctc 180
tcaagcttcc acaacatcca agcaaaacaa cattcaaaca gcacaagcta tcacagccaa 240
gcaaaacaga gcaaaggcag aaaactctgc cacaacacca accaaatcac agcttttctc 300
acttaaagac cccagtaaca attcctacga tccaattcgt taaccgctgg atcgactcca 360
aaattttact ggaagtatat agtacatgag cctacattgt gaccgttggg atctactagc 420
aaacatccag aact 434

<210> 20181
<211> 568
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20181

ccccctcac ccngcagagg atcggacaca gccacggccc caccgatacaa cccacnnc 60
caacaacaga gcggtnnngt tgatgccatg aacctcacgg cgaataaact cggcccgcgg 120
gaacctcaag agtccacccg caggcgcgca atctttttta caacgctcca tacacactcg 180
agacatcgtc tcaaagatcc caacgggcac gtaacggaaa aagagcctct aaacttgac 240
acccaagtct gagaagagcc aacagtgaac aaacgctggg catccacact attgaggcag 300
ccccacgtag cagctctag agagcctata taaaggctct ctccacaagc ttctcgtgg 360
ctaccatgag aagccatctc aagaggactc actgacaaga tagaccctaa ctatccacac 420
ccctctatca actaaaataa ctaccctaag aagtatgacc gatgacaaaa cgcacccaat 480
aaccgaccat ccaacataat ccctatcagg cgcattccatt atacatgaaa ctgangcaca 540

cagccatctc acggtgcgcc ggaccgcc

568

<210> 20182
<211> 386
<212> DNA
<213> Glycine max

<400> 20182

tatagcaggt ccacatgctc gccgattggt tgtctgacat atacaatggc tcaaactaat 60
acgaggatac acatactcca tcacaagtgc tgcacgtca atgtcaaata tgatgctcac 120
aacatgctgt tgttaacata gagataccag agtggcatta ccatgaactc ataaatgaca 180
tggactgttc cagatgctgc atgatgaaca tctacactac tcatgcacat aactagtaaa 240
acgtacataa tgtactcata ccataactat actagcaaata cctaatagcac ataacatcat 300
atcgattgta agaatcgtat aattgttcct gactgtcctg tgtctgaacg cactactatc 360
tacacaaaag agctacagag accatc 386

<210> 20183
<211> 575
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20183

gagatgcnnn tttaatnccc gtaaggancc ncngacacnt atataaaatc acncgcgtcg 60
tacacctatg agctatatgt tgtgtggaga agatttatcg ataataaagc gttatatccc 120
acctaggaac aatgaggcgt gtactaccat cccgctatct catcccttcc gcactatccg 180
acctgcata gtcacatgcg taggaacct acacctatta aatgcgtacg atgtatgagg 240
aactctccac atggatacca cgttctcatc atatacaaga ctatcatcat tgctnagaca 300
ttaactatca ggctcatgac ctgtccagtt actcgataag gaccactact ctttgagaag 360
acgaaatgcc taataccata atagatctcg accctcaaac cgagtgaggc gcggctccct 420
acaccgaatt gttcaaacct aagagatggc tcgaacatct cactatcatt atctgactca 480
gaaacagaca cacgcaagac taacaagtat gctctattga tagctccaaa caaacatgtc 540
tgaatcagct aatattgact gcgtctagta taacg 575

<210> 20184
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 20184

atgcttcttt cactaattta taactggaga atatatttat gtttaacaaa actagttcat 60
 aagttatata aaagtttact aatttttgaa aatttattac aatgacttat tcaattataa 120
 tagttgatta aaattgggaa ttgaagtagt gtaagataat aaaaatggac atatattttt 180
 acataaatc tagagtaaaa tatgttttta gtccttaaaa aaatttacia atttgatttt 240
 agtcattaaa caatcttatt tttgtcccc taatatagaa ataataatgt cacaatatat 300
 actatcaaga tcgaagatag agtatctcca atttagagga gcaaatacag acaaaagaat 360
 ttagatgact ctaaatac 377

<210> 20185
 <211> 233
 <212> DNA
 <213> Glycine max

<400> 20185

ccactatctg cagcgcaaga ctatatctcc atccacagac ggaactcaaa aacccaacg 60
 gcggagaagc gcggaaatga attccagacc atgagtccaa atgtaaagac aagccaacg 120
 caaaaaagc caacatcgta acaacatagg gacagatctg agcgtatgct ggaaaagaga 180
 aagaacagag cgaggggataa gacatccact acaaacataa actgaagaag ccc 233

<210> 20186
 <211> 574
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 20186

cgaccccgcc acacgcaaca gcgtaacggc ggactacgag aacaacaaga gaacttcccn 60
 ccncancnac aggagggtta nnttgaagcc gtngaacacc caaggcgaan acgagcacgg 120
 caccgggaga tccacnagag acgaccggca agcacgcaag cttagcatga aaggaggcgc 180
 gaagcgccaa caacaagcta acctgaagaa caccgcacag gagcacagca cacgaaaagg 240

cgcgaagcct gaaacactca ccgcaacgcg aagctagatg cacgcgaaac ctgcgatctc 300
aagcaaagcg cagaatgcag aaagacaata ggtgaagcag aaccactacc caagaggcta 360
gggaaagata cacagatgtc atagagccca agaagccttc ggacagagg aacgcgacgg 420
acgaccacac acaacctgaa gagaacaatg aggaaccgcg agacacacca ctangacgaa 480
gaggcgacag acaatggaga cagccacatc gacgatagca acgcgaagga cgccacgccg 540
accgcgcaga acccgaagac agaacaccaa accg 574

<210> 20187
<211> 523
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20187

acgccccagc gagaaaagaa cgacggaagg aaaaacacac acccagagac ttgagccctg 60
acccccnaa naaaaacaac accgaaaaac caagaaacca ccgcaaccnt aatttcagac 120
cagaaaggga aaccaggggc ggagcaaaaa ggaccacaa acagagcagg ggaacacaga 180
cacggcccac ggaacacaca cagccgcggg agacgaacc acagaagaaa cgcacggcac 240
aaacgccaca gccgccgcaa acagaaaggg ccgcatccaa atacaaacac ccgaacaaaa 300
aacgcgaaag aaccgccgaa gagcaccaca gatcgagcca acgacaaaag ccgcggcaaa 360
aacaagccc aaaaaagcac ggcgaaact cgcgggacag acagaaggag cacgcgcaga 420
caccgacagc gaccaccaat aagcagacca aggacacacg accctaagaa gggacaaaacg 480
gcacaagaac ccgacgcacg aacacaacga gacaagcagg aat 523

<210> 20188
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20188

attcagctcg gaccgggat cctctgagtc acctgaggct gcaatTTTTT tttgggtaga 60
tgaagatgta aaggaggatg aggatgtaga agaggaagag aatgtaggg atgagactca 120
gaagcaactt gaagaggcaa gaaaagaaaa tcataaacta cataagaagc ttgatgttaa 180

gagaagaaaa agatcgattc tgctttgtgt cgtacgactg tgtttggtta tcacattatt 240
 ctccgtgtgt gtgcgcgtgt ggaactaagt agggagttcc ataatgtgag gatataccaa 300
 gggaaggaag tctattggat tacgatttaa aaaaaaatta taaaaaaaaat tgtgttattt 360
 aatcagaatt tttaaagt ataaataacg tctgtgatat tcaattacaa tntttaagat 420
 tttctacaga agacataaat ccgatgata 449

<210> 20189
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20189

tcgtgacgaa ctatttatgg aaaaacttca ttgtngttat ttagtatata caaatgagtt 60
 tgttgcaatt tctctaacat gcaaccctcg tgaacccttt cctcccactc tctcatcatg 120
 ctgagacttg ggaagcccaa aaggttccac cttttcaatg tacttttaaac aaaatttaat 180
 agcttctttt gcaatgtacc tttcaacaat ggatgcttca agatgggtata tattcttcgt 240
 ataccctttt aagatcttca tttatcgctc aaccggacac atccatcgta aataaatagg 300
 atcacacaat tgaacttccc ttaccagatg aacaattaag tgaaccatga tgtccaaaaa 360
 tgaaggagga aaatacatct ccagctaaca taagataata gcagtctcat tttccaagtc 420
 atctaacttt at 432

<210> 20190
 <211> 402
 <212> DNA
 <213> Glycine max
 <400> 20190

ttgcttggtta aatatgtcta tcgcatttcc ctcgtygtgt aaaatgttac attgttctgc 60
 tgaataattg caaaaagggg ctatgttatt tgtccagttt ttattttctg aatgtctttt 120
 ggggttgata ataatgctta gaatttacgt tttggatcta attcaatccg aaagttaact 180
 tgtgaggacc tatttttttg ctatatcgct agttaatata gaaatctcaa cacactcttc 240
 ttatgttaga aataaatttg atcaagtact atgactatga gtattcaaga ccgaaacata 300

gaaatgacca atgcaattta gtaggaaaac ctcttatgcy tctgaagtta atttctaattg 360
taatacaatg tttcaattca acattggaat accataattg at 402

<210> 20191
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20191

ttcaacgccc gccacttcat atatcnttcc cattgctacc aagagtgtac aatgatcacg 60
ttgcacatac aaccccatag tcggtatcac attagcaaca cgttcttccc ttgacaatga 120
ggtcacaaca gtttcagcat tgggtctctc tggggtcaca cgtgcaccta attggtgtat 180
atctatatct gcctcagttg ggggagagta ctgcgatccc ctttgggata actccgtttt 240
gatggcctcc ttcaactcct atttcattct ctctagactc cattttgttt tcttcttcca 300
gtcatttcc cctattctcc tcaaggggtc caattatctc agccacctgt tgttgggtga 360
tggatgtgga cgagttgctg gaaccacatg atgcccttcc atattattga ctaattgtga 420
cacta 425

<210> 20192
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20192

tctagcttgc ctcanagaga tccagganag acaaggcggg tgaaggaacc agttctgctc 60
ccgaatatga cagccatcat tttaggagca ttgaccacca gcaacgcttc gaagccatca 120
aaggatgggc attccttcgg gagagacatg tccagctcag ggacgacgag tatactgact 180
tccaggaaga gatagtctgc cggcggtggg catcgctggg taaccccatg gccaaagtctg 240
accagacgt agtcctcgag ttttatgcc atgcttggcc tacagaggag ggtgtgagag 300
atatgcgttc ttgggtgagg ggtcagtgga tccctttoga tgcggatgcc ctcagccagt 360
tcttgggata ccct 374

<210> 20193

<211> 419
 <212> DNA
 <213> Glycine max

<400> 20193

ttgtgtaatc gattaccctt atttggtaat cgtttatcag tgactgtcta tgataaatca 60
 aaagatgtaa ctcttcaaaa aggtttttga ctttttcaaa ttggttttta gtttttctaa 120
 aagttataac tcttctaaat ggtcttcttg accagacatg aagagtctat aaaagaaagg 180
 ctttgttttg catttcaatg atcaaaaaaca cttattcata caatccttta caagccttga 240
 atctctttga acttcttatt cttccttgta ccaaaagcta tctgaagttg tctgggtttc 300
 taaaccttga aaacttgtgc tattcatctt ttcattctct tctcccttg ccaaaaagaa 360
 ttgcgcaagg actaaccgcc tgaatctctt ttgtgtctct cttctccctt ttccaaaag 419

<210> 20194
 <211> 282
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20194

cgagaatggg tatatatcta gcacaagaat tgagccacat tctaattgat tggttctata 60
 tattcatcac aacaatagaa cctgactcaa atatttnttt aacaaatctt cttaatatat 120
 ctctagaagc tagagcagtg ataataaggg agatgcatca atacatgaca tcaagataga 180
 tagcaaccgt gatgttgaat aattctacaa agttcactaa tgtgatagga cnttgattgt 240
 gatccctact aanaaccaag cttaacanaa ggaaactttc tc 282

<210> 20195
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20195

tcaagccaag gccagactct tgtgcatcca gaggcttctt tgaaaaaatg ccaaactccc 60
 ttcaaaaaat ctaatttcaa gcttaaataag gtgggttggt ccgtgctcgc gtgcttagca 120
 caaatcttaa tcgcttagcg cgcataagtg gattttggct tagcgcaact ctctcgctta 180

gcggatgagc tgaaggggtg cacttgatga cctggagcgg tgcgctcagc gaacctgaca 240
gctcatcttc ttctggattc ttcctcgcac ttagccactg agtgtcgcac ttaatgaatg 300
ctcgctaagc cagcagattg gcttagcgag aagggtgaaa caacactttt gccaatattg 360
ctaattaacc tgaaattgag agtaatttat tattaacac aaaaaataaa agtatanaat 420
ttctattacc 430

<210> 20196
<211> 362
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20196

tctgggagac caatgtcaag tggtcgcgat atgcgaagat gatgttccga gtactttgga 60
tttggtacga ccatgccctt ctgatttcca actgggaaat tggcgagtgg aagaacgccc 120
cggcatttac gcaacgagca taatgtaaac ctttacggtt ttaaaagctc tatagttggg 180
cctaggcttt agagtttttc ctttggttaa ggctntgtgt cttttggttt tgaatntata 240
atacaaggat ctttcttcat ctgttctat gtctctaccc attctcattc attngcatgt 300
ntacttcttt ntctgaaacg gcagatccga tgacgagntc cccgaaggta ctaatacctg 360
gg 362

<210> 20197
<211> 433
<212> DNA
<213> Glycine max
<400> 20197

taaagtatgc ccgagtcatt catccctatg agatgttggt gaagtattgg cgatcagaat 60
tgccattcct tggattatag ggttgaacca agctcatgct tttaaaaaa ggttcatcaa 120
gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180
acatcactgc ttcgtctact gccaaacata tttaggatta ttgatgtcct tgttacttcc 240
agtttcacct tgacaaagat gtcatggacc atgttgaaaa tctaaattga ttcaacccca 300
tatcttgogt aaaaattcgc aatacttcaa ctgtacatca ttcgcatgca tccatgcttt 360
tcattgggtg cattgctcgt tgcattcttt ccttgaaaaa taaaataaaa tgaacttaat 420

cattgttata aaa

433

<210> 20198
<211> 323
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20198

atcatcaaaa cattcagctt gatcctttgt ctacattatg ttgacaccag agccatcgcc 60
aactaattac taatcagtag catgataagg attgttacag tgtagatttt tgcacaatag 120
tccatgatcc agttattttg caacggaata aggtgtgggc ttggcatgat gagtactang 180
tccacttggg cattntggat agccatgaag tttatagcaa accatggcag tgttccttag 240
tttctcatag tattgacaaa ctaacatttt tgttatgcct cgaaatatgg atctgccata 300
tggtgaagtg gtttggttaac att 323

<210> 20199
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20199

tatgttaatg ggtcttaaga ggaaagctca ctaacattct taaacttact tattaacat 60
gctcatgaaa actatttttt ctcaattaaa ataaatccct tttattttcc tacaacaata 120
acccaaacta atattttatt atttatttat ttatttgcaa tatataatat attgtgagaa 180
aattacatta gcactccctc aaatattgac ttattacaca gacaccccat tcataaaaatt 240
gcattttcttt tgcacccctc tcgtgtcttt gttaacttat gctacttaaa agtgaaagg 300
caaaattaac cttctcactt aaccagcact caacacacct tntgtttatt gtttatgaaa 360
tttgaaaaca acaaagtgc tctactaggg ttgatagcg agggggagca tggtgctcat 420
gttggttg 427

<210> 20200
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20200

agctttatac ttgagattga atagttttaca atctccgtcc agatctagaa gtcatagaca 60
accaacttaa gaagaaaaag aggaaaagga gtattcatat ggaacaagtc atggaagaag 120
gcgaagaggt gaaccaagaa tagataatca tttggggagc attaagatga caatccctac 180
atttcaaggc aaaaacaatc ctgagttgta tttagagtgg gagtgaaagg ttgaacatgt 240
gtttgattgc cataattatt ctgaggaaaa aaagatttaa ctagttgttg ttgaattcct 300
tgattatgct agtatttggg gggatcaact tgtgactaat angcacagaa atggtgaaag 360
gcctattagt agatgggagg agatgaagac tgtcatg 397

<210> 20201
<211> 421
<212> DNA
<213> Glycine max

<400> 20201
actcagcttt ttggaaactt cttgaaagct gagctagctt tcacactcct ctcataacta 60
agctcacctc cttgagaagc ttccttaaga agattcgtaa agaagctaga gcttagctac 120
acatacctct ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180
caccocctat aatagctaag ctcaccccca tgacaaaaaa catgaaaata aaaaaaaaaa 240
gtccttatta caaagacaac tcaaatgcc ccgaaatata aggctaaaac cctatactac 300
tagaatggcc aaaatacaag gccttgacga aggaaaaacc tattctaata ttacaaaga 360
taagcgggct catacttagc ccatgggctc gaaatctacc ctaaggctca tgagaaccct 420
a 421

<210> 20202
<211> 73
<212> DNA
<213> Glycine max

<400> 20202
tgacgaacac tatattaaag catgctatac cctgagagct acgcacctat gacacggacc 60
taagtgtgaag cca 73

<210> 20203
 <211> 411
 <212> DNA
 <213> Glycine max

 <400> 20203

 tgggtggcact tgaaatatca tcagcagcag atgctacctt atcaaagaca aacaaaggta 60
 gttaccgatt cttcttcatt gctatcattg attgttactt ttgtcttcat gacatctggt 120
 cccactccaa atgaacaaga tttagtcgaa atattttatca tcccatgtta caagccttat 180
 catatgctct atcttaagtt aaatgttttt ctaatgtggt ttaactaaaa aaacaaatga 240
 gaatgaaaat cgtctaccga ttgtcttttt ataaaaacaa aaagaatgga atgggtttggt 300
 ctaataaata ttggagagac ataaaacatg aaaaaaacg taatttttaa gagaaacagt 360
 gctctgcttc tcaacatgga tgaacaacat attatataat tagacaaatg c 411

<210> 20204
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20204

 attttgtatc tacatagagt agaagataga tcattgatcc atcctccacc ttgttgtgat 60
 aaacacaaca atcatagaga cttctcttga atccttggct ggtgataaag ctatcaaacc 120
 tcatgtacca ttgccttggga gattgtttca aaccatacaa ggacctttgc agttgacaaa 180
 catacctttc ttttacttga acttcaaacc cttcacgctg tttcattaga atattttctt 240
 ccaatcttcc atggagaaaa gcagtcttga catcaagttg ttcaagttcc agatcttggt 300
 ttgccactat agcaagcaga accctgatgg atgtatgcct aaccataaga gaaaaaatnt 360
 cgttgaaatc tatntcttct ttctagctga atccctt 397

<210> 20205
 <211> 438
 <212> DNA
 <213> Glycine max

 <400> 20205

 gacctataaa actcagctta tgtctgaata tatgctctac ttgagtgttt gttgaactat 60

tgtacataac tcgtgaaatg aaatccatgt ttaggttgat ttgtttcctg aatatttacc 120
 taaatagatt gattctaatt ccataaactt atttactgta caattatcat tgaaatacag 180
 cacacgttat tcagtccaat caatggagtg atttttgggt tttctagttc atagtcatag 240
 cagacccatg cattagcgcc ccctaaccga catatactaa agggataaat tgatttgggc 300
 cattttgttc ttttattaag tgaatgggta gtgctagggt ggttaaaaac aaggctaggt 360
 agggttaacc cttaggccaa aaccacatc gataactcta cataaaagga gacaatagat 420
 ttgagaaata agaacaca 438

<210> 20206
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20206

agcttgtatt gtaagaaatg acaagaaact acggaatccg aaatagaatc aatgaagatc 60
 aacaaagtat gggctttagt tgaagcttca aaggatataa aaccaattgg ttgtaaatga 120
 gcttacaaga aaaggattgg agcaaattgg aaggttgaaa cctacaaagc tcattctgtt 180
 gccaaaggat atgtcaaaag taaggatatag attatgacaa aacttttctc ccgtggcaat 240
 gctcanatca attcggattc tttttgctat agtagcatat tatgatcatg anatatgaaa 300
 tggatatgga aaatggtttt acttaatggg gagctaaaat aatgtgtata tgacacaacc 360
 tganggatca caccttgtct g 381

<210> 20207
 <211> 430
 <212> DNA
 <213> Glycine max
 <400> 20207

tgcaggggta attcaggatt atggtagcgc agaactatct gaggtatgta tgtaattctc 60
 atagacttta atttttatgc ggtgtaaaaa attttacatt gtcaatcaat cagaaatcat 120
 catcagtgtg atttttaaca tagttattgt aaaagtaaac aaatttgtca tattgtgatt 180
 gaataacagt gtaaagagtg cataaactgt ttactcattc ttataatttt acaactttat 240

ctgcatgagc taattatgta gcttgaaatt gggggcatga gaactataag atagtatact 300
aggagtggat ttataaattt ctttgattta aactataatt ttagagtcac tttgctatca 360
agttgttgta ctgcactgat taacttatga acttatggct gcattccatt gtttctgcaa 420
tgtgtgattt 430

<210> 20208
<211> 332
<212> DNA
<213> Glycine max

<400> 20208
ttctttttac atggagtcctt acacaagttg caggaatgca acggactcaa cggtttctta 60
actgcagtaa ccaactactc agtggcttaa ctaaccgccc ctaggttcac acaaagtgtg 120
acctaactat acatgcatgc agtcacgtgc ctatacgtac tcctccaggt gccttggctt 180
cgtgatactc cttcatggtc gtggctcgtg tgttgcaaga tgtggagctt cattcatgtt 240
gctgctgcta acatcatcca cccctgagaa aaccaccttg tgctcaagat ggtgggcatt 300
gcaaacatct gtccatttct cccatgtcga gt 332

<210> 20209
<211> 424
<212> DNA
<213> Glycine max

<400> 20209
tgtgtcacga ttcactgtga cagtcaaagt gtcattttct tagaaaatca ccaaagtgtac 60
catgagagga caaagcacat agatgtgaaa ctacacttca tcatagatgt gattgaatct 120
gagaaggtga aggtggagaa gggtttcaaca aaagaaaacc tggctgatat gttcacaag 180
tcctctctta gtgtcaagtt caagcactgc ctggacttga tcaattttga agatgcctaa 240
agcagattgg tagaagtgca gccctaaatc acaaggtaga cacttgctga tttggagtca 300
aggtggagat ttgtgggtgtg tgactcaaaa tcacattggc tcaagtgaga aggttttaaa 360
gtgggtgtgt cataactgtg ttcagtcatt ataattgaat taggtttcac accaatgtat 420
agtc 424

<210> 20210

<211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20210

atctttatac agtttatctt totttacactt gagttttgga agaccaatta ctaagtcttt 60
 cctaattaga tgatttaaatt gatgcatatt aatgtgtgca gtcttacaat gccacaacca 120
 tgaatcatct attttactca ccaagcaact tagttcatga aaaacatgct tgctcattca 180
 acatatagat gttacctatt ctcttaccac tgtggataac ttaatcagat atggcttcac 240
 ttataaggca tcaattttcta ttaaattcaa tcttgaaatc tttatcacac agttgactaa 300
 tgctaagaag attatgctgt agtccatcca tatataacat attatntatc tngaatttgc 360
 gttgattcct tatatntgct tctcccatct atctctcttt ggtaattgct ac 412

<210> 20211
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 20211

acagcttcat taagaggctt cctctagaag ctctctcgtg acttcttcga gaagctttct 60
 caagaggctt ctttgagaag ctacatcctt atctatccac ccctctatta actaaattaa 120
 ctctcttaaa aattattacg gatgaaaata acgcaacaaa taatcaaaca tcaaacataa 180
 ttactaataa tatatatata tatatatata tatatatata tatatatata tatcaagggtg 240
 ttacaactct cccacccttt tagaaatttc gtgctcaaaa tttaccttac tcaaacaagg 300
 atgggtgagc ttctcgcac tgactttcta attcccacgt ggcattctct cctgatgcac 360
 ctcccatat caccttgacc aacggaatct ctttccctct taggtgtggt gtacgcctat 420
 cctcgatcct 430

<210> 20212
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20212

agcttaatga tggaatactt aattgttggt gatgaacaaa agcgcaaaac ggaatcaaaa 60
aatgcaaaaa atgattaccc taaggctgca aactcgtaaa tcccagagggt attgcttttg 120
aatgggggggt aaagatgttt ttgaatgcaa aagcgttccc ctccctcgtt tttatatattt 180
gggtgcaagggt ttgctcgcgg gcgagctcan ctgcccagg tgagctaacc tgccattgtt 240
ttttttgttt tttttttacg ggaacataa ccatggcccc ctctctatac acgttaacgt 300
ttgcctactc gaacctactt aagttagaat taggcacgca ttacttattt aaaacaaaca 360
atagtaataa tcaactgtgaa ttccaggata ctggttgctt gcatgacgtc tctgttg 417

<210> 20213
<211> 426
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20213

tgcttatctg atgcagcagt aatgatggcc cgagtttggt ggggaacggt tacgaacccg 60
gaatggggttt aggcaaagac aacggcggtta taactagcct gataaatgcc aaaggaaatc 120
gtgggaagta tgggttaggc tataagccca ctccaggcaga tataaagaga agcatcgcgg 180
gaaggaagag cggtagtcaa aactcgcggt tgagacaaga aggtgaagga agcccacct 240
gccacataag taggagctnt ataagcgcgg gtctgggaga cgaagggtcaa gtggtcgcga 300
tatacgaaga tgatgttccg agtacattgg atttggtacg accatgtcct cctgatttcc 360
agctgggaaa ttggcaagtg aaggaacgct ccgycattta cgcaaagagc ataatgtaaa 420
ccttta 426

<210> 20214
<211> 368
<212> DNA
<213> Glycine max
<400> 20214

tcttcttcgt gcttaaatat gtatggcaaa acttcattac tggtgttcaa gacatagaag 60
tgagcttgta acaaattctt tacacttgga gtgatcacct gcagtcctct tgaaccctta 120
ccaccactc tgtcatcatg ccgacactca ggaagcccaa caactttagc cttctctaag 180
tattctgaac aaaattcaat ggcttcttct gcaatgtacc tctcaacaat agatgcttcc 240

ggacgatata gattctttgt ataccctttt aagatcttca tgtatcgctc aaccgggtac 300
atccaccgta gataacagga ccacaacatt tgatttctct gacagatgca catcaagtga 360
atcatgat 368

<210> 20215
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20215

tccattgttg agtntttgct tcccttttca tgctttatct cactccccac aagtaagtgc 60
aatttccctt gggtatttgg ctctccattg atgtgttttg gtgctttagt tgctcatttt 120
ttgcaaaatt cgtgaagcaa tttgcatcta aatccatgct tgttttgtgg agttgaggat 180
ttgaatgaga aggccttagg cctatgttgt attctgaagc aatggggcat gccacattgc 240
ccccattctc ttgcaattta tgtccaaaca tgtgcccac aagtgtcgg tgaaatgccc 300
caatgatata tgaatatgat tttgcaaaat tgggatgggt gggctgtttt gtgtatgtag 360
agacagcata ggaaagtcga aatagatgcc caaatgcaat cccaagctta ggaacccaaa 420

<210> 20216
<211> 327
<212> DNA
<213> Glycine max

<400> 20216

agcttggcgt gcaaaataca ccttattatc acatctccgg agtacagagt tcagactgcc 60
actgcagttc tgatgggggt aggaaaattg atgaacaaaa tgaattacaa acaaatattc 120
aagaaaaaaa aaaggatagc acgtacagat tagtttatta gacattgtaa aacaaaagct 180
ataaaagaaa acactttaag tatcaaaaag ggacacatta agtatcaaaa agggacaaaag 240
atgaaggaaa cacttaggtt ttaaaacttt gaagttgttt gtagcctaca aaaatgcatt 300
gatttgataa gagtgttcaa gttatta 327

<210> 20217
<211> 431
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20217

tttatccnca gcctcaatgg aagctgggta taattttttac aaaggtggca gggcaagtcg 60
aacctgtaaa aaaataaagt gtttggtaaa gaaaaaaaaa tgggtatttc atttcatacc 120
acatttacac aatgctacat tgtaacaagt cttacaggaa ttttttcagc aagaagcttt 180
cgtattccat gagctctaga ctccaccttt acatccactc ctgaaacata ttcaggataa 240
agcaccagaa gctccatgat atttgtaaga tacggattta aaaatccacc aagcttgtcc 300
acaactgcct ccaaagtgat gagaacataa aaatgggatt catttgaggc tgataaaaca 360
tcaatggttt cgggtttcat atcagccaat actcgacgag atgacttcat cacattgtcc 420
ataatcttgg g 431

<210> 20218

<211> 362

<212> DNA

<213> Glycine max

<400> 20218

tctgaagaga gtgacgaggc tcaagcccta taggcatatc ttgtaagagc ctgtgttgtc 60
tgcgagaatt tcacgtccat atgcacatac aaactctgct gaagagtatg atgaactacc 120
gtatgtcaat atgtccaccg atgaaccctt ggaatgagac accatcaagg gccgtaggga 180
acaacacgac ctaagcgaat ttctgggggg ctttatcagg caacaatagt gagctcaagc 240
tcccaagagg tgaaaggaat catcacgggt caaaggcatg atcttgatcg acgagctgca 300
ggtttgcctt aggtcgaata gacatttgtc ccaacaccta agcgagattg aagggaatat 360
gt 362

<210> 20219

<211> 308

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20219

tttttttatt tggcttgatg aattcttaaa agaaattaat tgaaaccaat gacgattaac 60

ttcaactgga agtcaagaaa aatgggtcaaa aaggaaaact tacgctatatt atttgaaaaa 120
 agccgtaacc cgaaatttgt atggacaaaa actgctatgc ccaaaataca ataaatgata 180
 gggaaaatgc attnttttta tatatatata atgacattgg ggccaactaa cttctttttt 240
 atgaattaat tttattaaaa aatgatgtgg attgaccact ttattaatac tcannatgaa 300
 acattact 308

<210> 20220
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 20220
 tgtccacaaa aataggtttt tgaagtttgt aatttaattt tctcactaag taaaatggat 60
 cattttcaag gtccaacgcc ttaaaatgat cacctcttaa agtaaaaaag aatcacttga 120
 taagaaagaa ctacgtaggt ctgatttcct catcgcaatt gaggaatacg taggagcaaa 180
 gggaaacacc cttgtcaacc acaaaaagag aaaaatataa aaagggtata aaagatataa 240
 agacataaaa agggaaacata aaaatcaaag tcatgtttgc acattcgatc aaaggctgcc 300
 gtcccttggg acggacgtgt ggggtgctaa taccttcccc gtgcgtaaata acaactcccg 360
 aacctttcac ttaaaaagttc gtagatcgcg tcttttccgg tttttccgac gttttcctca 420
 cataaacggt 430

<210> 20221
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20221
 agcttgtcgg atttgggtctt caccggcaaa aggatcgaag tgggtctaaa aagaggcaaa 60
 tttgggtcatc ctgctttgat gaanattggg gcaagtgaag aggggtgagaa tgatggagaa 120
 acccatgttg tgactaccat tcttatatgg ccaagtttcc caccaacca acaatgtcat 180
 tactcagcca ataacaaccc atctccttac ccaccacca gttatccaca aaggccatcc 240
 ctaaataaaa ctacaaaacc cacctaccac acgaccaatg ctaaacacca ctnttagcac 300
 gaaccgaagc accaaccaac aggggaatttt gcagcanaca gcctgtagaa ttcacctcac 360

attctggtgt catatgctaa atggta 386

<210> 20222
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20222

tctcaaggag gtgagcttag ttatgagagg ggtgtgtgtt ctaagctcta gcttctcaag 60
 gaagtgttct caaagaagct tctcaaggaa gttttctcaa gaaagtgttct caaggaagct 120
 acctagtcta taaatagaag catgtgtaac acttggtgta actttgatga atgaaagtct 180
 tatgagacac acttcaaagt tctacttctc cccctctttt attccttcaa tttcgtgctc 240
 cccctctctc ttttctctcc ctctttcttt tctccattg aagcctctt ccaagcttct 300
 tatccaaggc tcactctggt ggtgaagctc cttcttccat tgcttattcc ctagtggatg 360
 gcgcctcccc tctctcttcc tcttttgctc tccgctgcat cntccatggt gaaaatgacc 420
 attgaaggac c 431

<210> 20223
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20223

agctttttatc cactgatcat aggacataga ctaaaataca gtggtagtat ttttaagaat 60
 tcaattgata tatgatagcg ggcaataaac atatatgatt tctaaaagct tacatgttga 120
 cattgactat tcagtttata cctatataaa ttatctaatt ctggtgaggg attgatgttg 180
 aattaacaaa aactaacgga agatgtaaaa aatgaaagtc tcttagccaa aacagaagta 240
 tccttatagc atgtagaaat gtgggtttct gctccgaccg agtttgtttc ttctaattgg 300
 tcaaaatatt taacaaaatt gcatttgtgc cancatttat atatgaaaaa aataataaat 360
 t 361

<210> 20224
 <211> 432

<212> DNA
<213> Glycine max

<400> 20224

tgtccagaca ctacattgat tgaacagtat aatacaatTT taagaagaaa ataggaaaaa 60
gcttagatac agttccttgg tttttgatgt tgttttccaa tcagaattgg agtttcactt 120
tagaagtcca cataatatag atttgcatta aaggattctg tagattattg aaatgaaact 180
ccaattctaa ctgaaaacag caccaattgc acctaaagaa ctgtatgcaa gttttgtcca 240
aagaaatata ccttgaaacc gtgacacaac cgcagatggc aagaagcaaa cctcgtagaa 300
ggaatcatat ccaaccaaaa gacaaatcaa gtaaattgact ccacagacaa ccaccactgc 360
agaagtgaga aacggaatgc tttcccacca ttgggtcatc ctagtaggaa acccggcctg 420
agtcaattaa gc 432

<210> 20225
<211> 341
<212> DNA
<213> Glycine max

<400> 20225

agcttttctg aatgaaagtg gcgttttttg aattttaaca atactttctt attattctat 60
ggatctgttt cgaattctga ttgttaattt gtagttctta ttgctgtggg aaactgtgaa 120
taggtttttg cttttaaatc cgtcgggtgac taggtggggg ggtaaacgaa catcctgttg 180
cggagttata cgattaaacc gcacttgctg ctcttgttct gattctggat tttacatggt 240
tctaattttt attttatcga gggttaatgtc cgcttttagaa ctgattataa cggttacaac 300
ataatataac ggttctgaat tatgtccgca atatttttgg t 341

<210> 20226
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20226

ctgattntgt gaggaagata acggttcact tactatctat ctttattaca ttcaaataac 60
acatatatac atacagcaag aagaggagag agacagctta acaagacaag acatattgtt 120

gtcttctacc ataagctaag caggaaatta ggtaagataa aaaaaataga aaatacacat 180
aattctaaca ctccccctca agttggagca tataaatcgt atgcaccaag cttggagcat 240
ataaaactgaa tcttaggcct ccttaaggac ttagtcaaaa tatcagctgg ctgatcatta 300
aaattaatga actcagtga aatttctttg gacagtagct tctctcggat aaagtgaacag 360
tcaatctcta tgtgcttggc cctcttatgg aagactggat ttgaagcaat gtgaatagca 420
gcctgattat cac 433

<210> 20227
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20227

atcttatgag agagtcaaag atcaaattga gaggaaaaat aaaagttatg ctaaacaagc 60
caacaaaggg agaaagaagg ttgtcttcaa acccgagat tgggtttggg tgcacatgag 120
aaaagaaagg tttccggaac aaaggaaaac aaagcttcaa ccaaggggag atggaccatt 180
tcaagtgctt gaaagaatca atgacaacgc ttacaaagtt gagctgcccg gtgagtataa 240
tgtagttcc accttcaatg tctctgattt atctctntnt gatgcagaat ggagaatccg 300
attgaggaca aatccttctc aagagggaga gaatgatgan gacatg 346

<210> 20228
<211> 491
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20228

ggaccgatgc accaagcgcg aggaaggata aaaagaggaa agacctcaaa ccaaccccc 60
ccacggagct tttgaactag agaancgcgc acaaaaaaac ccgcgcggac aaaacagggg 120
acgaaccgca actaatttcc cccacgaaac agcggcgggg ggagggcgca ccacctata 180
cagagacccc cgcaaaagaa aaagagacac cccggggaaa aaaaacacag cgagggcgac 240
acccacggc ccaagggagg acctcgagaa ccagaggga ccccccggca accgacaaag 300
ggaaaaaaaa aaacgggcgg aacagagacc gaccggaaa ggaacgccga caaaacaagg 360

gtggggcgaa cgaaaaaggg ggcccccccg gaacaagaga ggggggacaa accccgcggc 420
 ggaaaacccc cgcacagaac tcaaaaggaa aaagggggcc tccgggagca acagggacca 480
 cacaagaggc g 491

<210> 20229
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20229

agctttctat ataaatgacc aataattata acagaatddd atcttttcaa tatcatttga 60
 cttacgaagt taggacaccc aatatccaag tgatctcaat tcacaagtta cttttttattd 120
 taagcagtat gcaaggcaca aaggaactga gattttctcca cgccaaatta aatatcaggg 180
 aagccttaaa aaataacccc attattacat tgtctaagct gtgagatata cataagtgga 240
 atggtgactc tagcataatc aattgaggat catattdttd gcaacttggga acattgctca 300
 aggatgatag ctatgatttd acatgcatag tagcttagca ttcaaagaaa attntcatta 360
 tctgctagct aggcagtaag tgaagttgag aaagatatca ctact 405

<210> 20230
 <211> 427
 <212> DNA
 <213> Glycine max
 <400> 20230

aactcagctt cagtggagag agatctcatt gttctaacc ttgtattagt gtaagggaga 60
 ttgacaaaga aattggaaga aattdttataa aggatcttat ggtgaatgat attgtdgaaa 120
 gatacctggg aatcacccag attctgtatg atctcctaata agataattat gtagttaatg 180
 ctgtactatt ttatgatagt gagtaatgtg tggaacatgc agaataggca ggaatcaatc 240
 ataacttdtg tctattatgg acatctattd ccactgttdg accttagact aagcgaaatc 300
 tatatgtaca gagaactaca atcaattaga aataattcct cacattdtdg cctctccttd 360
 attatataaa tgcctatcct tgatccattg tggggtgact tacatagcca tgcttcaggg 420
 ccacata 427

<210> 20231
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20231

atctataagt agcttttcggg agaaaaagag catgccaca agcttagatg taatatttgg 60
 gagaaaaaga gaataccagt ccaattcctg tgccaaatac aagtctccca agcaccaata 120
 caggaaaatt aggagctaata gctgttacaa gggctccaac aagataaact actgcagatc 180
 caatcagctc ctttcttcta cctaaaaaat caaatttgct acaccagttt caccggggaa 240
 ggaaatagca aaaatgatag ctgacaaaag gggaaattac ctaagaagtc agcaacattg 300
 aaggccaaca cagagccaat taaggcacca tacaatgac cactagtctg canaagacag 360
 tanatgccat ttgccagtt tatattncag atcaatatat atatggag 408

<210> 20232
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 20232

tgtacatatg aaagtcattt ccatattctg aagaattatg atgatgaagt tacatacaaa 60
 ggagaaaaaa aggtatctcc acgcaataaa caataggaga gattaacaaa tggtatcatc 120
 acaagtcaag gctaaaagat tcaaaacttt aatagtatta tggaaagatc gagcatagaa 180
 caaagaagat agttatatga gaggcacata tacaaaatta ttttcagtaa aagtcaaaga 240
 tatttgacat tacagttgct accaattaca tcattgaact ggatgaaatt ccacaagcca 300
 agaatgttca gattagtagg taaggaaacc taaggcagta ttgagtatac attgtaaatg 360
 gggttgatta ttggatatta gtggaacctt attatgaata ttacacattg tactcac 417

<210> 20233
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20233

agctttcttt agcagcttct atgagaagct aacgttttaa ctactaacac cttttntaat 60

aactaaaccc acctccttga aaataattac ggataaaaaat aacacaacaa atataatcaa 120
 acatcaagca taattactaa atatatatag atatatatat atcaggggtgt tacactaagc 180
 gcgagatcag tgtgctaagt gcagtagttg tcttcaacca ggctcagcac acgactagtg 240
 ctaagctcaa atccactcac tcgcgctaag cgcgaggggtg gcgctaagcg caacatcgtg 300
 aattcaaagc ctatttaaag tctgtcttgt gcaaaattan ggtacaagtt gtataataac 360
 cagtgcacaa aatttcacag cacaccac 388

<210> 20234
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20234

tccttttaat gcgtcacatt taaagccgag ctcgattttg gtgcgagcct ttgatggtag 60
 tcggtgggaa gtaatggggg aaatcgacat tccattcag ataggccccc acacttgcaa 120
 tgtggtgttt caagtaatgg atataaatcc tgcctatagc tgctcttgg gaagaccgta 180
 gattcatgcc ctgngagtgg tcccttcaac gcttcaccag aaattgaagt tcgcagtggg 240
 tggactttta gtgatatgtg cgggtgaaga ggacatgtta gtgagttgcc cttcctccgc 300
 accatacgta gaagcgggtg aagaatcatt ggaaacgact ttccaatcct ttgaggtggt 360
 gagctgcgcc tcggtggaac caagtccgtc gctaccttct etc 403

<210> 20235
 <211> 321
 <212> DNA
 <213> Glycine max
 <400> 20235

agctttcatg cttatgagaa gaacagtgac ctaggcatgg gagaggtctg cacagaggcc 60
 attgtctccc tcgccaata ttatgaccag ccgttgaagt gcttcacctt tggggacttc 120
 caattatcac ccacggtgga agagtttgaa gaaatcctgt gatgccctct gggaggaaag 180
 aaaccatacc tctctcggg attctatacc tctttageta caatttccaa gatagtccga 240
 atctcaacgc aggaattata ccacagaaag gaagtcgaaa atgggggtgt tggagtacca 300

aggaaatgct tggaagtaaa a

321

<210> 20236
<211> 404
<212> DNA
<213> Glycine max

<400> 20236

cgcggttcaa ttcattctat gtacccgagg cggaccttat tttgctacat gtattaatat 60
acacagggtca ttcacttttt ataccccctt ttgacgtgct taagccattt atttaagtca 120
tttctcgctt aaactaaaaa taaaataaat tttccaccga tcgtgtggat tgtatcatct 180
gttaattttg gttaaaatga attccgaccg ttcggtcgtg ccgaaaccac gttggaaatc 240
aaaaaagagg taaaataata atataataat aaaaaaatac ctttttagtaa agtaaagcga 300
aaaatcaatc ggacgttttc tctttgggat ttctcattct taattgaatt gactaatagc 360
taaagtgaat tcaatgctaa gatcaaactc acctagtcaa gctc 404

<210> 20237
<211> 373
<212> DNA
<213> Glycine max

<400> 20237

ttatctttta gttaaattaa acttaccatt gttatcgatt tctaaaaagt aaggatttta 60
tttatggaat tgggtccaagg ggccaaccgt gtgaccttga ttgcatcaaa agtacatccg 120
cgcatgcctc aaccacagtt tccacggacc ttgttccata gttccttctc gccattagaa 180
ctagtattat catacaaaat taattaaaca tttaaatata ttttttagttc agaaatatgg 240
ttgtttaatc tcttaataaa aagttatttt ttaaattcta caattgatca atatattatt 300
ttagcccttt catcagacac ttgttgtaaa agagtctgta atatttatag cttaatcttt 360
aatactgttc tag 373

<210> 20238
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20238

tcanagaata aagacaacaa catggtctaa agttgttctc attgataaga ttatgcggtc 60
 tgccaaagca caaattaaat tacacaaact aataaataat tacccttcca ttctaatacat 120
 gaacaatttt tcatctttta gctttggcca ctgcttttgg cacggttaag gttgtgtcta 180
 acataatttt tacattagat agtattttca tatcatctgg tgcattctgtt ataaaataat 240
 aatcgctcta ttatacatga ataataataa taaataaata taagagaata taattttata 300
 aaattaattt tatatcatca ttaatttatt tataaatttt gttgtccaat attaataatta 360
 taaaagatat aagcaaaaaa ataattaata ttacactgaa aaattaaaat aataattatt 420
 ntgaaataa 429

<210> 20239
 <211> 282
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20239

atcttatttc ctaaatttca attgaaaatt aatgtgaaaa caagttccaa agctagaggt 60
 ttgttgagtc tttnttttag tttttttttt actctactct agagccattc taagtttctc 120
 ttttaagttct agcttgcttc tatgtccttt tcattgcttt aattgttgaa taatccttga 180
 aaaattgtct tgtaaaaact ccattgggtt agctntaatt taattntttt ggtccttggg 240
 tattgcttgt ctctttgttt tcttgtttgt gagttgtcat at 282

<210> 20240
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20240

taacaaaagg catgcgaaga ggggtggaatt cttatatcaa ttcccttatg ttatcaaaca 60
 taaaaaggga aaaggttaata ttgtagccgg tgctctttct cggcgatcatg cattactttc 120
 tatgcttgaa acaaaattga ttgggtcttga atgtttgaaa agcatgtatg aaaatgatga 180
 aacttttgga gaaattttta aaaatcgtga aaaattttca gaaaatgggt tcttttagaca 240
 tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctacaaattt 300

gcttgtttgt gaagcacatg aaggagggtt aatggggcat ttggggtcc aaaagactct 360
 agaaacatta caagaacatt nttattggcc tcatatgana aaggatgtgc agaaantttg 420
 tgaacattgc 430

<210> 20241
 <211> 243
 <212> DNA
 <213> Glycine max

<400> 20241

cagctttttt cgagggtactt acccggtgaa gatcgaagaa cgatgaagaa cgaatgaaga 60
 acgtcgaaga acgggttgaat tctttgcaa attcctcacc gaaaacgtta ccgaaacgtt 120
 tcggaagcgc ctcggttaa attttcttca cggaacaat ttttccaagc caattcgaaa 180
 gagagagaag tgcctaaggg gctgaccct tcttcttgc ctctctccc tatttatagc 240
 aaa 243

<210> 20242
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 20242

tcatgatgaa tcaagattga ttcagagagt ttcgatgtt tcaaagatga tgacaaaaag 60
 ctctaaagtc atgagcactt catgatacaa acgatgatga tctcacgact caatacatga 120
 gttcaagatt gaatcatcaa cactccatgg ctcatatgga aatttgattt caagagtcaa 180
 caattaagtt tcaagactca agttccatga atcaatatca agattcaaga atcaagagaa 240
 gacttaatcg gcatatgtat tagaaagttc tttcatgaac tgattagcac atgaattttt 300
 ctcaaaacct tataccatga ctttctagtc tctggaatc gattacatga tcatcgcaat 360
 cga 363

<210> 20243
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 20243

tgccgctttt tatgtctagt gattctagag agaaaaaggt ccaagttcca gagagttttg 60
agaagatttg ctgggtgaag atctaccgaa acccaagctt gaaacggaag ccgttttgag 120
agctcgagaa gaagttgtga gtggttgtga gaacctaaaa gtgaaagaaa cattcttccc 180
acttttaatt ttgcaatctt tcatcttgct cttttctttg gtggaaagga ggctttccgg 240
ttatggaaag ctcaaactct ctgttggatc ttccttggag gtacttgatg taaatatctt 300
actatctatc taatgatgtt ttatgtggtc tttgtgctat cagactttca ttctagtatg 360
cctttaccct gatcatatag atgcatgctt tgtagggtca ttcaacagtg aaag 414

<210> 20244
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20244

nttaaattca aatttggaag ttgcaaattg tttcagattt caatttagcc actggtaatt 60
gattacatcc tctggtaatc gattaccaga gaggaatag catagttttg aaaagataat 120
tgtttctaaa atttttttgt aaaatatttc ctttagccaa acctgtgcag catcaattaa 180
ggaattcttt ctaagatcct atcaactaag tatatcgctt ttcttgcatt tctgaattct 240
tgacttgaat cgcgcttctc tttggcatca tcaaaacttc atatcatata tgcttctaca 300
atctccccct ttttgatgat gacaataatc taaaatcaag ataaacgata caccattgat 360
aatgcgtgct cacaaccctt acacccccct aagattgaaa tttatgccta agttctc 417

<210> 20245
<211> 291
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20245

agcttgtaa ngatgtgagc ttaangatga gacgggctg tgtaactaaa ctctaactta 60
tcaaggaagt tttctcaaag aatcttctca aggaagcttt ctcaacaaag cttctcaagg 120
aagctaccta atctatacat agaagcatgc gtaacactcg gtgcatcttt gatgaatgag 180
agtcttgtga gacatacttc anagttgcac ttctatccct cttttattcc tgtactttga 240

cgctcccgcc tctctgtttg tctccctctg tcttttacta cattgaagca t 291

<210> 20246
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20246

gcttggtccgg gaacagttat gcatgagttc atagatgtgt gctttcttgc gtccttccga 60
acagagtcca ataagtatga caacattaac atgagaagtt ctactgatac actattagaa 120
aatatgtttt ctacatcggt tatttatgac tttcaacatc ggcttttcag ccgatgttga 180
aagtaccgac gttgatagta ttatcggttaa catcggtttt tgagaaaccg atgttaacgt 240
aaaattacca acatcggtta tataaataac cgatgttgct aatatgaatt acaccagac 300
aatgtatatt aatgttgaaa gttaacatcg gttcttactg aaaaccgatg ttgttatcaa 360
gaanttttct ttatataatg tctgtgtaga caaccgatgt taacgaatgt gtgact 416

<210> 20247
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20247

agcttctatc acattcaga aatcttctca aagatcccaa cggtcagatc atggaaaagt 60
gtcttggtgaa gttgcaaacc aaatttagag aagatccaac ggttaacgaa ggttggaag 120
cgtttttacc gaggcagctt catgtagctt tctctagaag cttcattaag aggcttcctc 180
cagaagcttc attaagaggc ttatagcaca gtccagacat cttctaaaag atcccaacgg 240
tcatatcatg gacaagtgtc ttgtggagtt gcagaccana tttcgagaag atccaacggt 300
taacgaacgc tgggcattcg ttttacagag gcagcttcat gtagctttct ctagaagctt 360
catta 365

<210> 20248
<211> 416
<212> DNA
<213> Glycine max

<400> 20248

tgggaggatt gatagggacc cagtgttgag agaaatgatg atatgggcta cgtgggagta 60
cgtgagctca gttggagggtg ggcaacaggg aatgggtgggt ttatacatga tttgtggatg 120
tggaaaactt tttgtgcacc atcgcccgac cgccacctag taccacatgt gatgggtacc 180
ccatattcct acaagcttga gatgaggaag tgtagaaggg tgaaacttcc tgcttttatt 240
cgttgaccac agagtggtag ctggagatat gtcgcgggga tcaggagacc ttggggacgt 300
caggtgggggt gctattgccc aaaaccaagc ttgaccaatc ccaacccaac ccgggcatag 360
ccagtcagtg agaacctgtg atgtacctaa gcaggcgagc tcttgtagtc aacaga 416

<210> 20249

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20249

agcttttttg ttttaaataa aaaggggttt ctcttttcta ttattttatt taagcaatgc 60
cacatgtctc catttgagtg gagcaaaaag ggcctacttt ccctttttga ctgtgaccca 120
tactcagtca caaaagttag aaaaatctga cctttgaaat gctaaaatcc tgcctcggtt 180
tgcatgttgt ttctctgggt ccagttctct gtgtttctct gcgtccgtca gggtcagttt 240
tcgaaagtac gcaatatata tatcagaacg ctcaagaata aacccccgagc gtggttcaga 300
ggttggtttc gttaaattnt aagtcgcacg cacaacgatg attttaaact aattaattaa 360
gaattaaccc at 372

<210> 20250

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20250

ntgtggattt agtcttcgcc gggaaaagga tcgtttctgg tctgaaaaga ggcaaatttg 60
atcacccctac tttgataagt gagaaaacta gggcaaatga agagggtgag aatgaaggag 120
aaacccatgt tgtgactgcc attcctatac ggccaagttt cccaccaacc caacaatgtc 180

attactcaac caataccaac ccttctcctt acccaccacc cagttatcca caaaggccat 240
ccttaaataca accacaaaaac ccacctacca caaaaaaatg cccaaacacc acccttagcg 300
aaaaccaaaa aggaatTTTTG cagcaaaaag cctgcaggat tcaccccaaa ttccgatgtc 360
atatgctaac ttgatcccat atctactcga taattcaatg gtatccataa cccc 414

<210> 20251
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20251

agcttatccg acctcccat aacagcgctt acatagaaaa gtattgcatg ccaaggcaag 60
cacaacagca gggtcaggca caaccgcaga tgcaccattg gcacctctac gacaaccacc 120
atctctagag tccatctctg ctacatgcg gaggatggag ctccagatgc acgcatatat 180
gcagcatgtg atcgactagc aggagccaa tcatatgggt caggtgcagc taaataagag 240
cttttaccga tacaccttgc atcaacagag ccaagatatc atccctttcc cgtggcctac 300
ccccaaccag ttcagggccca cagttgcatg gcctggagat aggcccgatt ntcaaacagg 360
gccaggactc gcatggaccc ccagagataa agatggagca caggatgatg at 412

<210> 20252
<211> 351
<212> DNA
<213> Glycine max

<400> 20252

actgaggggg ctcaattcta tctaaatca gtcctcatt actacggccc ttttaagggtg 60
ttggagaaaag tcggagcaac ggcctacaga ctttctgaat ctgcaaggat acattcggtt 120
ttccatgtgt cactatcgaa aaaagctgta cgtgattaca atgttgagga gacacttccc 180
ttcccttgga gttggttagt gacaatgcaa caagtatgga accagaggca catctataat 240
tagctccgcc tctggagcat taagcaccat ctttttcta gaaattctat atacctgggtt 300
tctagtctgg tattttcgct ttcattgacc acacagtcaa tgctacattt a 351

<210> 20253

<211> 358
 <212> DNA
 <213> Glycine max

<400> 20253

agctttatgg caatttgatg gctacatgag cacttaacac acaccactta gcagccaaga 60
 ctattagtat ggacgactaa aattaagaga cgataaagct tttaaatagt ggaagaaact 120
 gaactataaa aaatacacgg aggaccaaca attcattgaa accataaaaa tctaagctca 180
 gacccaaatc atgattaaaa aaaagtacat gctacgttga gttaagagta ttccagaaca 240
 agcttaacaa ataacaaaga tggagcacat ttttaattatt ctttataata atggattcct 300
 tttctttttc tttttaatat tgatgcattt cttatagttt ataggaagta agtghtaat 358

<210> 20254
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20254

taacgtgtag tcgtgaatta tgtaaaaaat tccatttagt gactntctct agactccaac 60
 ttttgggtgg ctctcacgga tcaatgtcta cttaccaagt caaatacatt ttacccttcc 120
 tcttggatgc tagactgatt ctcatatgag ttaattactg tcactaattc caactcttca 180
 aaccttaatt tacgactagg ttgcgtttca cagaattagt agtatcttgt ttaattctac 240
 atgtgaacac tacttgtgaa attctaacca cgtgaagaca ttgaatggta gctagaataa 300
 gcacccctaa ttaatcactt gatataatta atatgatgtt gaaaagttaa tctgtctoga 360
 ggcaaccttg atatcaacct ttatgaataa cattgattga ccgactcttt tttttatata 420
 t 421

<210> 20255
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 20255

agcttgtgca tcctgtacct tgatgaggat gacgcatatg ttcttataac tggactcatc 60
 catttgcatt acaacattca tggccttgca ggagaatacc cgcgcaaaca tttgaaggaa 120

tctcatattg tgagctccac catgaagccc ccacatgtcc atgatgatca catatatctg 180
 aacgctgtta ctcactcatt agaaggagtg gcacccgact ggatgtatta ccatgctacg 240
 atgaccgtca ccagctgcga tgac 264

<210> 20256
 <211> 232
 <212> DNA
 <213> Glycine max

<400> 20256

tgatgacttg gagactacaa caggcgatcg agctatatatt ctagaggaag cccaaatcgg 60
 gacctgactg tatctagagc tgtgggaggt atcatatgca tatgaagccc tgctgagaca 120
 gacatctaca gactagtgga ttaaggaacg cgacaggata caacttattt tcacgaacct 180
 gtgaatgtcc taagaaacta tactgtctct caggggtctct tcattgatgg ga 232

<210> 20257
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 20257

ttagcttgca cactcaaagg gacatctcac ctatatcttt atgaaaaact atcatgtaca 60
 tctgtccatt acacaaaaat aacaccatct aagcaaactt aactgagtag agactagttc 120
 tctccttctt ccataccaat atgtcctcct cactcagaat caaattaata cttctaaagt 180
 catgaccttt ttttatctaa gcaaattatt atatttattt ctcctaataga tatagagatt 240
 tctccattcc catctccaca atcaatttcc ctccctccgg tcacctaaac ctaacaccct 300
 ggcttttatg gctactacaa ggttgataaa tctagtatac ttcctatatg tgaaaataaa 360
 gcactttcac 370

<210> 20258
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20258

tattgcttgg aaaccaacac tagataagat actctgtttn ttgaatttat ctcacaagaa 60
taccatcaat gacaatgaag tattgtgtgt gggatgtgtt ttgactgtaa atatacttgg 120
cacttgttct ttgaatgcaa tttttttctc tagagtttgg tgcggttact ttagctgggtg 180
gggtattcat tttgcacaat ataatgactc tccttcgaac ttctcacaat tcgtgggttt 240
gccaaagtgc aatgattaga atgagttacc gtgataacaa tttggtttgt agtgttttgg 300
gcaaaaatgga ggactcgtag ttttcttgtt tttaaaacta taagaatgag ttttgcataa 360
attgtttaac agtcaagata cacctttgtc aattaattag tactatatgt gattnttttn 420
tactgtccct 430

<210> 20259
<211> 340
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20259

agcttttgaa tgtgaagaac ttcaattaaa gttctaacaa catcattatg cattttttat 60
ttgtacagaa cctataccga caaacttata aggagcattg ttatccatga gaaccttacc 120
accaaaattc ttctcatatg tcacaaacca atgcctatgt tgacacatat gataagagca 180
acttgagtct agtaccact gtttagaatg ttgttatagt tgttcaccaa cagccagaac 240
caaattgctt tttgatgagg aattattcta aacaagagca tcaatagaat ctttctttgc 300
tttctttgga tagtcttgcc ttcaatgatn tgattctttg 340

<210> 20260
<211> 426
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20260

ntgagtctaa agaaaaagtc agtttctcaa ctctatctga aagtgtcaga acatttagcc 60
tgaagacttc tagtttctga gtaacgagag catcatgcag aaaataataa cagagaaact 120
tcgggtgatg ggtgcttaga ggatagtcag aatagatgca ttgcttcaaa attgtgtcaa 180
tccagcagtc atattgaagt ctttctcgat gaatctaata ttccttttaa tgatactttg 240

atgcctcaag atacatttgg aggtgaaaat tcttagcaac tacaggttga gtcaattcca 300
catgttgcac ttccagatgg aatccagcat aagatttctg gaagtaaact ctgggtctaaa 360
acatgaaaca gatctataac tcanagatca aaatggctta caacggcaaa ttgctagtgt 420
taaagc 426

<210> 20261
<211> 352
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20261

tagctttgaa gttctagtca ttatttacgt ttcaactttg ttccatatat tttcggcatt 60
ttctatttta ttctcttaaa aaaatcccaa ataacaataa ctacacattt attcatatta 120
aaagtgaatt gaggtgtttg tagaattaat tttgaattaa catgggttcta tagaattgat 180
tgtaagtaaa cataagtttg tagtatataa tatgattatt gtttggaaat ttgctaccaa 240
aactggattt gtgggcaatt actaaaatga ctngagttca agagtacaca ttgaacaaat 300
agcatgacta ataatacgac tcaagttagt gttgattcan aagctatttc ta 352

<210> 20262
<211> 406
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20262

taccgcact attaccaca accaccacc atatttatca atgttaagaa aatgacatcg 60
gcagaaatgc acttgagaag agaaaggggc ctatgcttta cttgtgatga caagttttcc 120
cctagccatc gttgtcctaa taagcaatat tttgttccac agtgggaaga agaggatgaa 180
cctgcattac aaccagatcc accagacgag gttgagacag ctggtgacc tagtttgcaa 240
gatcatcatt tgtcttataa tgctttaaaa ggctcatcaa gtcttggaac aatgaagttt 300
caaggatcaa taaatggatt gngagtgcag attctactag ataatgggag ttcagataat 360
ttcctccagc ctagactatc tcaatgcctg aagttaccta tagaac 406

<210> 20263

<211> 392
 <212> DNA
 <213> Glycine max

<400> 20263

agcttgttct taaattcagt taagagcaac gcagagctca cattatctgc ttcaactcct 60
 aaacaatcca aaatTTTTGG cttctggttt tatgtcaata catcaaaatc ttatgtttta 120
 cttgtgtcat catgtaatgc ttctctact attgattcca taaaacagaa aaaaaaacac 180
 taaaaaatga aacctaatat catcaacaac ataaaccaa atttttggct gctgggtttg 240
 tgcccattcc ccacatttga tcttcgatga tccaatctac aaatctcccc cccgcccccc 300
 ataaaaatga ataaaagaca gaaaataaaa gatacttcag aaaccagttc agaaagaaaa 360
 aagcgctaaa tgtaatatcc aatcgaaaaa tt 392

<210> 20264
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20264

tganatgagg aagtgtggaa aggtgagact tcctactttt attcgttgac cacagagtga 60
 tacctggaga tatgtcgcg gggtcaggag accttgggtga cgtcagggtg ggtgctattg 120
 cccaaaacca agcttgacca atcccgaccc aaccgggca tagtcagtca gtgagaacct 180
 gtgatgtacc taaacaggcg agctcttggc agtcaaccga taaaagaaca aagaccacaa 240
 agcaaggagg cttatgtggt ggctggccag ctgtgaatct tgagtgatat atgggatatg 300
 gcctctggta atcgattacc aagggtgggt aatcgattac aaggcttata aacgagatca 360
 ggaagctaag agggcttatg gtaatcgatt acaaaggggc gtaatcgatt accaggctta 420
 naaatatgac tggaat 436

<210> 20265
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 20265

agcttgaagg taaactagat gccttgggtta acctggtaac ccaactggcc atgaataaaa 60

aatctgcacc tgtcgccaga ctctgtgggt tatgctcctc tactgaccac cacacagacc 120
 tttgcccttc tatgcaacaa tctgaagcaa ttgaacagct tgaagcttat gcttcaaaca 180
 tctacaatag acctcctcaa cctcagcatc aaaatcagtc acaacagAAC aattatgacc 240
 tctccagcaa caggtacaat cccgggtgga ggaatcatcc caaccttaga tgggtcaaac 300
 cttcacaaca atagccttat tttcagaatg ctactggccc aagcagacca tacgttcctc 360
 caccaatcca gcagcaacaa caacaacaac aacag 395

<210> 20266
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 20266

tcatagetta gcaagtgtc agtttctctg caatgtaccc cagaaagttg ataagcactt 60
 cttcacagtg ggccttgga caactcctg cctcaaaat caaacttgtc aaggaccac 120
 caatgcaaca aaatttgag catcagtga caatgtctct tttatacaac caaccactgc 180
 actttctcaa gccacttct ttggtcaatc caatggagtt tactccctt actttcctat 240
 tagtccattg gttccattta actatacagg cactccacca aacaatacca tggtagagaa 300
 tgggacaaag gttgtggttc ttcccttcaa cacaagtga gaactagtga tgcaggacac 360
 cagcattctt ggtgtgaaa gtcacctct ccatttgcac ggctttaact tctttgtgt 420
 tg 422

<210> 20267
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 20267

agctttctaca ttcaattttg agcgtctcgt aatattacgg gactcaatca gacatccgag 60
 taaaaattta ttgtcgttg gattggctca gagattcaac attcaatttc gagcgtctcc 120
 atatattacg ggactcattc agacatccga gtaaaaagct attgcagttt gaattagctt 180
 agagcttcaa caatcaattt cgagcgtctc gatatacac gagactcaat cagacatccg 240
 agtaaaaagt tattgtcgtt tgaattggct cagagcttcc acattcaatc tcgagcgtgt 300

cgatatatta caggcgtcaa tcacacatcc gagtaaaaag ttattgtctg ttgaatttgc 360
tcagagcttt aacatt 376

<210> 20268
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20268

ctgagccaat tcaaacgaca tattctttnt actcggatgt ctgattgagt cctgtaatat 60
aacgagacgc tcgaaattga atattgaacc tctgaggaaa ttcaaacgac aataactttt 120
ttctcggatg tttgattgag actcgtatta tatcgagacg ctcgaaattg aatgttgaag 180
ctctgagcta attcaaacga caataacgtt ttactcggat gtctgaatga gtcccgtaat 240
atatcgagac gctcgaaatt gaatgttgaa tctctgagcc aatccaaacg acaataaatt 300
tttactcgga tgtctgattg aggcccgtaa tatatcgaga cgctcgaaat tgaatgtgga 360
agctctgagc aaattcaaac gacaataact ttttactcgg atgtctgatt gaatcctgtc 420
atatatcgag acgctcgana ttg 443

<210> 20269
<211> 391
<212> DNA
<213> Glycine max
<400> 20269

agcttgttcg cattatatca ctaaaaagga ttttaaggct caatacctca gtttttctca 60
ccaagaaaaa aatggatcat ttttaaggctc aacgccttaa aaggaccacc ttccaagtaa 120
aaagaatcgc ttgattcgct cttttgaaag aactacgtag gtctgatttc ctcttcgatg 180
gaggggtacgt aggagcaaga gccccgcttt tgcgcacctc aaaaattaaa aagaaataaa 240
agtttaaata cataatttca cacaattcta atttaaggct gttatccttt gggataaatg 300
tgagaggtgc taataccttc ctcaaacgta aatacaactc tcgaatctgg aatattcttc 360
atgaccagtt tccttcggtt ttttcgacgt t 391

<210> 20270

<211> 443
<212> DNA
<213> Glycine max

<400> 20270

tgttgctcgt atgggtgtgt ttccattggt gccttggtt agtgtatgtc tttatgttct 60
acatttggtat tcagattgca cgtatttgat ttttttggtt aaataaggat tacgggtaac 120
aagtttatta ttaaacttat ttatgtgcaa tacttaaatt gcacttaagg acttcaattg 180
atatctttaa agacttaagt taaaccagtt ggaaatagac atgtttgaga tcatattgca 240
tacaatttcc atgttgctca ttcattattga tatatatcat tgagtgtatt gacgaaagcc 300
atggcgattc cattattgca tgtaattttc aagtgaacgt cttaaagataa ataacatata 360
aatgtgtgcc taaggaattg tgatacaatt gttacactac tagaaaaatg caatttcacg 420
aaagaaatta ggcaccaatg tat 443

<210> 20271
<211> 388
<212> DNA
<213> Glycine max

<400> 20271

agcttataaa caatgtgagt tgactctaac ttatcgaata actcatccat agttggaaga 60
tggaattaag ccttcattat aggagtattc atggctcaat agtccatgca catttgccag 120
gaccattctt cttcctatga agaaacactt attaagaata gggacatgta gggctaaatc 180
caaccattgg ccaagaaatt cgagacctta tccttaattt ctaatttctg ggcatgagga 240
tatctgtatg ggcgaacctt gaccaaagca gcattatgga aaagagggaa ggaatgggtc 300
atggatcgtg ctagcatgat gtgagtgggt tcctcaaata ggaatatgta ttccataggc 360
atctaataa gaataatgta attcatgg 388

<210> 20272
<211> 441
<212> DNA
<213> Glycine max

<400> 20272

tggcattctc aatgggtggaa ggacctccga aagctatatc ttcagcctga gttcaatctt 60

<211> 376
 <212> DNA
 <213> Glycine max

<400> 20275

agcttgtttc ctttacaatt ggagtcatga ctaatgaaca tgtacttctc acttttgtca 60
 tccaacttgt ttgtatctca tttggcatgt gcacatgacc aatgcttcca aacactttta 120
 gatgtgaaat gacgggctta ctccattcc atgcttcttg tgggtgattat cctcatcac 180
 tctttgatgg agactgggta gaaaggtaaa ctgcacaagc cactgcttct gcccagaact 240
 cctttggaag tcttatgtgg atcaagaggg ctcaaaatac ttatgaaggg ggggtcgaat 300
 taattattcc taaacctata ctaataaaga aatcactctt ctaacgcttt tacttacggt 360
 tgtgagagaa tattga 376

<210> 20276
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 20276

tcatgaattg taattagaaa gttctttttc actctctcat ataatatatt ggatcattaa 60
 aatagtcgat tctcttaaaa tggtgatgag tgtataatat gtggattaaa cttaataccc 120
 gtatgtgcaa ttaatggctc cacacaaaat ctaaagtctg ctaacgagca taatcatcct 180
 aacaagaaat ccatagtgac agtgacgact taatgtataa tttattccat ttttggatgt 240
 accaggttcc aaatattact ttcaatgcaa ctactttatc toctcaatta gtggcaaccc 300
 cgctggctgc ctcttgcccc tggtcgttc aaatgtaaca ttgatgtagc gtttatagca 360
 tatcagcaca cctgcacccc gggattgggt ttatgccttt gtgatgctga 410

<210> 20277
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 20277

tagctttcat caagtgttaa tcagagcaca agagcttcaa gtagggtgctc cttaaacct 60
 cattaattgt ttttctttac ctctcttcc attgtgtgtt cttcattttt ctccatgtat 120

ctcctcacat gtcttgttct aaatgtcggt aacatgattc tttaaagttt ccagcgatta 180
 .aacttgctat agaagttaca tttgatttta tatggatcaa atttcttggt cttgttcttg 240
 aaccatgaat tgtgttgagt ctaggttctt tcgagttttg tcttgtaatt atttgaggct 300
 gaaacctaaa ccataaaatt cttacaaaaa tattaaagtt gaagaaaacc tcataaatct 360
 atagtgactt gttcacctat 380

<210> 20278
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 20278

tgaatcggac ctacgtgtga aatgttatga ccattttaat ttcacgagag cttccgttgt 60
 tcatttttoga acgtctctat atgtgatgcy ccttaattcta acatccgtgt gaaaagttat 120
 gaccatttga atttctcaag agcttaacgtt gttcaattat gagcctctcg acatattatg 180
 cgcccgaaac ggacatccgt ttaaaaagtt aagaccattt gtatttctcg aaagcttcct 240
 tgggttcaatt ccgagcatct cgacatatta tttgcccga tctgaccttc gtgtgaaaag 300
 ttatgaccat ttgaatttct cgagagcttc caatgtttta tttcgagcga ctcgatatat 360
 tataagcatg aatcggacct tagtgtaaaa agttatgacc atttgaattt ctcaagagct 420
 tccgttgatc aatttt 436

<210> 20279
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 20279

cctgcttgct tttataataa tggactcgac attcatgttc tttacctaag gaattcttac 60
 caatacaaat atggatcatt ttagaggcgg atgctcttaa tggaccacct ttccgctaatt 120
 aagaatcgct gcgattagct cttttgattt agactaccat gtatgatgtc tcttcttgga 180
 cggaccgtag gagcaatagc cctgattggg tgcactctca gcaattagca tagacataaa 240
 agttaccttt cgttatatcg cacaaatctg atctaaggct gctatccttt gctataaatg 300
 cg 302

<210> 20280
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 20280

tgtgcagtgt tgggtggtgtt actgatctac attgttgatt attaacagtg actgccacat 60
 acgggtaaaa tgtatacgga tccgcaagct actaacttca taaattatag actgagagct 120
 cgacatgggt ttcaacgaga ggccatgatg ttgtcgcgcc aaatggactc accatatgtg 180
 gagtattcac cactctctaa ttactgtaag ttctatgaac ctattatcct atgatacccc 240
 aatgttcctt attaagaata ctatttctaa gcatatacct tagcatctca cacatggaac 300
 ttagccacat accgtcacat ctaacatatg gaccataatc acatacactg ctatctcata 360
 ggtagaacat agccacatac tttaacatct gactgatgga cca 403

<210> 20281
 <211> 292
 <212> DNA
 <213> Glycine max

<400> 20281

gggtgaaact tcttgctttt attcgatgac cgtaaagtgg tacctgtaga tatgtaccgg 60
 gggtcaccag accttgtgga cgtcaggtgg ggtgctattg cccaaaacca agcttgacca 120
 atcccgaccc aatccgggca tagacagaca atgagaacct gcgatgtttc taagcacgcg 180
 agcttctggc atacaacaga tggatggaac atagaccacg gtgcaacgat gcttgtgcgg 240
 tggttggcca cctatgaact tgattgatat atcggatatg ggctctggta at 292

<210> 20282
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 20282

gacactatga aactaagctt acaagtaagc ttccatcaag tggattatga tctcaattat 60
 cttaagtagg ctctccttaa acctccatta attgtcagct ttaccttctc ctccattgat 120
 gtttcttcat tgttctccat gtatctgctc acatgtcttg tgctaaatta tgtaacatg 180

attcttttaga atttacaccg attaaacttg ctatagaagc tagatttgac tttctatggt 240
tcaaatactct tagtcttggt cttgaacccat gaattgtgct gagtttaagt tcctttgagt 300
tttgtcttgc aattttattg gctgaaacct aaaccatata attcttacia aaacattaaa 360
gtcgaaaaaa acctcaaaaa tctagagtga ctcgttcacc tattgtattt ctgtcaaaga 420
agtcattgtct agtcattgaca ctcgtcacat 450

<210> 20283
<211> 460
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20283

gagaacgtga nccgaggcct tgatgcctct aacacactgg gcgaangcac ctcggaccgg 60
gagatcctat aaagtcgacc tgtatgcatt tttagcttttc tactactggg gtgtcttccc 120
aaacctcaaa tgtattgcac ggctacacaa tcaactagga gattccatta ttaaaagaca 180
gaattactct caaatctgca cctttcctag atgttaatta acccgccgta acaccacttt 240
cttttaaaat ataggggtgt aataactgca caagactatt gacggccaac acttctctta 300
tattgaattg gatttttaat caacaccttt ctcgtcccaa attcaaaatt gattcgcaaa 360
tgtgttggga aaataccatt agattgggag caatttgagc ccaataaaca taatcggcct 420
ttttctcttc ttttcctctt acgacatgtc gaacaatact 460

<210> 20284
<211> 185
<212> DNA
<213> Glycine max
<400> 20284

taaggatctc aaacaaaggc tgataggctg gagcagagat actgtagggt acttgcgctt 60
taagggttaag cagctgcagc aaaagctgaa tgaattggaa gattccatgc ctcaccaacc 120
ttctaaccag caagtccttc agttgaagaa tattcaggct aagctatggc aataggctaa 180
gttgc 185

<210> 20285
<211> 368

<212> DNA
<213> Glycine max

<400> 20285

agcttcagta ttcaatttcg agcgtctcaa tatattacgg gactcaatca gacatccgag 60
taaaatgtta tcttcggttg aattagctct gaggtcaca attcaatttc gagcgtctag 120
atatattacg ggactcaatc agacatccga acagaaagtt attgtcgctt gaattatctc 180
agaacttcat aattcaatat cgatcgtctc aatatatttc gggactcaat catacatctg 240
agtaaaaaag ttattgtcgt ttgaatttgc tgagagctta aacattcaat tacaagcgtg 300
tcgatctatt acgggactca atcagacatt cgagttagaa gtgattgtcc gtcgaatttg 360
ctcggagc 368

<210> 20286
<211> 430
<212> DNA
<213> Glycine max

<400> 20286

tctagtcatc cataaacctc ctcatggta cggtcagca aacgttgcatt ctgtgcattc 60
atcgcatcca gtaacagacg ttgacctcg tccaactgat gatactcgtc accaccacca 120
cctgctccag ccataattca acaggaaaaa aatgtgcaa taaaaattat taaggtttta 180
ggacctcaca acactctact caogtgttta actcttagat ggtagtacac tcgtgtttaa 240
tgctctcaat ataggctttt gtgtaatgta ttccctcttg ctttttacca ctcatgtttc 300
ctcttaagtt cctggatgga ccaaattaga cacacaaggt aatataaaat aaaaggaaag 360
acaatataat gatcaciaac agatttgatt tgggataaca acttggactt tgatttggat 420
aataatatat 430

<210> 20287
<211> 393
<212> DNA
<213> Glycine max

<400> 20287

agcttttaag ataccgagaa agatagagct gtttgtaatt ttagtccttt gttctgtttg 60
atactccata ataaaatggg atattactat tattattatt tgttctaata aatcatttac 120

ggaaagtttg atgctaagta agatgaagga attttccttg gttattcttt gcatagtaaa 360
gcttatagaa tatataataa gataacaat 389

<210> 20290
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20290

ntggaatgaa tttgttttct agcaaaacaa attattatac ctatagttca taaggctaaa 60
tggaccaatc taagttttgt gcttttattt gttttttgct tagctagtct cttcttaagt 120
aatctccctt gtttttcttg aacaataggt ggcagaacgt aacaatgatc ctcaattggc 180
agacttcatt gagagcgagt tcttgtatga gcaggtaaaa cttgcagttg aattcatagt 240
atggttggat ttcataagat ataagactcc ttgaccattg tatgtaatac aatactctga 300
actctttacg tcttanaata attgtttgtct tttacacgga tcaagaaaat aataataaat 360
aaatgaatga aatagtaatt ntacacaagt aaccttacat tatcattaat ttatttctaa 420
attctataat tggttctcaa t 441

<210> 20291
<211> 393
<212> DNA
<213> Glycine max

<400> 20291

agcttataag gtgttgtcca atcgggtgcc tggatgatgg ggggtgtagt caacgctctt 60
ttgaggcaat caaaagcctc tttgcatctg tcattaaagt caaactccac ctccttttgc 120
aacaagttgg acagtgaag ggctactttt ctaaaatccc ttataaagcg cctgtagaat 180
tctgcatgac caagaaaaga tcacacctct cgcacacaag aggggtaagg caattgtgaa 240
ataacagaaa tttttgcagg atctacttca atacccttat tggaaataat gtggcctaaa 300
actatacctt gctcaaccat aaaatgacat ttttcaaaat ttagaacaag gttagtttca 360
atgcatctat tcaaaacttt ttccaaacta ttc 393

<210> 20292
<211> 444

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20292

tgctttctaca atctcccncct ttntgatgat gacaacttct gaaatctaga aacacacaca 60
cacacacact ttttcctagt cgatcactca cataaatttc cattctcccc cattggtttt 120
gaatttatgc ttctcttaaa aataagttga ttactcatgt gagttcttga tttaatccct 180
atctctctcc ccctttggca tcaacaaaaa gccaacgtgt gtaacaaatt tgaagcatac 240
aaatacaact aagcatccat acaatattca tgggataatt taaaccaaatt tatgaagcaa 300
gaatcatgaa gcaagaacaa tgaatagatc aaatataaaa tccacataga gaaaagcata 360
tagaaatcaa gcaagataat aaattatcct cacattataa tagaagcata tgtgcataaa 420
taacacataa gtcataagtc atca 444

<210> 20293
<211> 295
<212> DNA
<213> Glycine max

<400> 20293

ctgaacacgg atgatagtcc agaggaaagc ccttcacca aatatgcaac ttcctattca 60
agaaacaaga aaatattcaa tttagtga aaatgaatta tagataattt atttaataaa 120
tgggttccaa acaatttgag tgagtacgag atatgtttcc atattgatgt taaatattgg 180
ttcacgcata attaactctg catgacaact taatcagaca ttctaactag ctatttttag 240
tacaattttc ttattcaaac tattttcttt attcacagga tctaaacttg agata 295

<210> 20294
<211> 379
<212> DNA
<213> Glycine max

<400> 20294

ttgggcttac aagctcccg ggggtgcccta ttgtgagcta cattttattt acgcaaatac 60
ccttacgaag cccccaaatt aaggacttat cataatttga aacccttatg ctctctcaga 120
accctgaaac aacgtcaaag atatcaaaat aaggctcacg ggtctattca aacacatcat 180

tattactctt ggctcaccag ggggtgcaagg gataaattca ttataagttg gcttttaaattg 240
 ccgaacgact aaaatacaaaa gaaacatggc cggagaacat atccacctta tgcagataat 300
 ctagcagtct aagagtgatg cagactacga attaaagcga cgccctctatt ataagttaca 360
 caaacaccgg gacaagata 379

<210> 20295
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 20295

tgatatggtc tacaccgatg aaaggatcat agtgagtcta taatgaggct aatctgatca 60
 tcatactttg ataaatgccaa aaaaaaatg gggctaatac ataggggtgag gatgaaggag 120
 aagcccgtgc tgagactgcc attcctatac agcgaagttt tccaccgacc cagaaatgac 180
 attactcagc caatacccta ccttggttctt actcaccgcc cagtaatcca caaaggccat 240
 ccctaaaaca accacaaagg ctgtcttccg tacttgcaat gacgaacatc acctttatca 300
 cacaccaaga gcaccatcct atagatgaat cttgccgcga gaaagcctgt agaattcacc 360
 ccatttccag tgtcatatgc tg 382

<210> 20296
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20296

agaatctttt ttgaacctga gacntgcgag cacgtgacac tatnnaagac gtctgcctgc 60
 naggatgtga taaaggatca ctcacgagct gttactcttt gtaatnccta tactgacgcg 120
 ttataacatt gactggccat tacatgacca tggcaagaca ggaaaaactc ttacatcacc 180
 cagcatagaa cgctggcttc tgggtcccccct ttactgccct atggtaatcg cttggatgac 240
 agtaccactc ttgcttaaca atgttcttta aacaaatatt gtggacggaa cgtgctgagc 300
 attttttctt cgcaaaagac ggtataccta tcggatagcg gccctgacat cctgtatgca 360
 tgatgccttc atgaaccacac tcggaatcgg tattgacgat cgacttatga ttttgaactt 420
 gctgactttg attttgccctg agcttggcat atcaaataac ttggaagctt cg 472

<210> 20297
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20297

tgcttgtttg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggg 60
 gcacaacaag tttttccaca ttcacaatgc gcgcataaac ccaccatccc ctgttgccca 120
 cctgcaactg agctcgcgta ctcccacgta gcccatatcc tcgtttctct caacaccggg 180
 tccccatcaa tctctcaag cttccacaac atccaagcaa aacaacattc aaacagcaca 240
 agctatcaca gccaaagcaaa acagagcaaa ggcagaaaaac tctgctcaac acatcaacca 300
 aaatcacagt ttttctcacg taaagaccac agtaacaatt ctttcgatcc aattcgtaa 360
 ccgttggatc gactccaaaa tcttactgga ag 392

<210> 20298
 <211> 109
 <212> DNA
 <213> Glycine max

<400> 20298

cgcattccaga caagaagcat tcaacacgcg ctgacgcgat aaagaagaag tggaccaaaa 60
 agtaattgca ggggaaatcc aacagggcct aagtggaggg gtgagaagc 109

<210> 20299
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 20299

tagcttgtgt tgagctctag gagtcgttat aggcattgaaa tagtcatcta caccaggagt 60
 gttcttcccc ttttgagact tggcagaaac ggatgatttt ggagttcttc ttaaattctc 120
 aactattctt acaaggctctt cattaaagggt attactttcc tcaaattggt cttgcatttt 180
 tcttttcttg attttgtcat tttgttcaag tacttgtttc atttgatggt ggacattaac 240
 aagaaccttc ttgcaaagcc tcaacttggc ctttttgtcc aaccaagtga gccttgaacc 300
 tattaatacc acctccctta acctatTTTT cacaatataa atacacatca ttgtcacttt 360

tgtataacct tcatcaattt gtttac

386

<210> 20300
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20300

ntaacctcat cgtctctcac agtcttttaga tttgggagct cttccagtcc ttttgttcgg 60
actctcagcc acttatgata gccgccgatg atcccattac tgcttcccct aagctctctg 120
tcctttcttc acgccgcac ccatgccttg cgaactcctt ggagtaccct cgcgttggtg 180
tcactgaaac ctctgtcgat gaaaggcgtg atgctttcgt ctgatggcac tcctctcatg 240
ggacatcctt cgcataga tagaatcctg attcttcctt cttcttagcg aggggaaccat 300
ttaacagacg cccctccatg ctagccaaga gttggtgcac aacaaacaat tcttgcgccg 360
ctcttttcac atccccggtc gaatgtgtca tacatggcca aaatggcgac gatcgggctt 420
tcctttccat gatgaaacg 439

<210> 20301
<211> 382
<212> DNA
<213> Glycine max

<400> 20301

agcttttttag tttccaagt ccaattcgtc ctcttcttta gtccagtctt cttctggctt 60
caattcatca gcgggcttct cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
gacagctttc caggttctgc tatccagtga tttgaggaag gccaccattc ttgctttcca 180
gtattcatag ttgcttccat caagaattgg tggactgttc actggtcctc cttctttctc 240
catgttcac agaatctatc tccccacac tcactctgtg attgcgagtg ttggctctga 300
taccaattga aattctgata ccatgggaca gatgtcgtac aggatgtcac gacatcacgc 360
ttcagaacat gcagcatatg tg 382

<210> 20302
<211> 438
<212> DNA

<213> Glycine max

<400> 20302

tgcatgattc acattctccc cttttctcaa gcaaattctt aattcttttt gacatcatca 60
aaatcttcat gatttacatt ctcccccttt ttgatgatga caaccacctg taggttagga 120
gcaacaacaa agaaaaaata tctatttgaa tataatttac tcccccttgg ttttgcaatg 180
attgcttata tgagacagtt gaagatttca tttttttcat atgtaaacaa attgtctcat 240
aaagaataaa taatttttct tactatttta tcttttatct ttctctcccc ctttgtcaac 300
atcaaaaaca aatcatgaat agagaggaga aagatgttac cacttggtga ttacatacat 360
atattttatc ttttatcttg ttgattgcaa tgtatgagaa tgaagtgata ccaaaaggca 420
ttataacaat catttaat 438

<210> 20303

<211> 516

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20303

acacagccag cccacccga ctacacaaan acaaccannn nnnnnnnnnn nnnaaaaagg 60
ggngtggag cgtagnctc gaacacncna accnnacaag cganccnnaa agcccccccg 120
caggcaggca ancaatttat gacatacacg cccaangaac caccgacctc aggagcacgc 180
acgcaagaga tgaacacgct agaacgaaac acgcccacaa tacacacaga agagccgagg 240
accacgaagg cccaaggaaa gacccaacac caaacgacga ccaaaccaaa cgacacccaa 300
gaagacaagc cacaaggaga caagagagga gaagcacaca acaacaccca cgggagcaaa 360
aacaagagga cgcaacagcg gacaaaagaa gaacaacagg aagcaagcca gcgaacacac 420
acgacaccaa gaaaacgaca aacccggaaa aaccaacaag acagaaccgg ggaccaccaa 480
gacgcagaca aaagaacaca aagcacaaga cgggcg 516

<210> 20304

<211> 378

<212> DNA

<213> Glycine max

<400> 20304

agctttttat ctaaggaaca ttcttgggtg tgaagctcct tcttccatgg cttattccct 60
 agtggatggc gtctaccatc tcctcttctt ctttgcctta cgctgcatct ccatgggtgga 120
 aaatcaccat tgaaggacct cattgaagct caaagattca gcctccatag aagctccaca 180
 agcaagcttc catcaatgaa taacatgatt ctttacaatt tccaccgagt aatcttgcta 240
 tagaagctac atttgattct ctatgggttca aatttcttgt tcttgttctt gatcttgaac 300
 catgaattgt gttgagtaca cgttcctttg agttttgact tgttattttt tgcggctgaa 360
 acctacacca taaaatta 378

<210> 20305
 <211> 343
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20305

aaatgaggaa taccttttgc atttacgcgt ctacatcgat aggcaaactt gttactgata 60
 ttcttcacaa atgttaagac ccacgtaact tctgtgtacc ttgcgttatt gggaacaaca 120
 ttgttaagaa tgccatgcta gatttatgag catgagtgag tgccatgcct ttgtctattn 180
 tcaattatat atcctatgga ccttggcaat ctacatatgg cctaattcat gtggcaaata 240
 gaatagttgc ttaccctaca gctttcatat aggatgtact gatgaggggtt ggtgaactta 300
 tttaccctgt tgattattat gtgcatgata ttgaagaatg att 343

<210> 20306
 <211> 367
 <212> DNA
 <213> Glycine max
 <400> 20306

tcttgcttgt acattgcaca atgttggtgt tcggatgacc ttatgactta tgcattgctgc 60
 attcttgtgg atcttgcatt cacattacat tattgggtgac attcttttca ttactggaaa 120
 gcttatattg ttattactgg ggaagcagca cacatttatg gccatcgctc gtgatagaaa 180
 ggaatcataa tggatggata agataatac ataaggagcc atcccacttc ttgaaccata 240
 taattgatca tatggctggg ctaaccctcc tggggatgca ttcattggtta caggccctga 300

gtattttaca acaaggcgta aggatccatc tggatgaatat atgctcaaac ctctccgttt 360
tgattgg 367

<210> 20307
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20307

tggggttggt tgtttttttt ataaaaaatg tccgacaact tttagattct tttgacaaaa 60
atgccttact cttttatctc tcagatttat agcacctgtg aactttgact ggattgagaa 120
tttggctagg tcttggttga cgtgtaacgt gtgacattga gcctagatta taataaatgg 180
aaaccaagta gcttcctgtc aaattcaaac tcgttgatga aaaactatgg ccacattaat 240
taagactgtt tacaagggtt tttgattttt agaagctgat agttgaagtt gttaagagaa 300
tctaagcttg ctgagattct gcaaattcctg tgacaaaaca acagcaagag gtgacgaaag 360
aaatagtcaa tagtgaagga ttccgctgat gggaaggaag acaaangtgt ttgactcgga 420
actagaaagt 430

<210> 20308
<211> 394
<212> DNA
<213> Glycine max

<400> 20308

agcttctagt cgtccataga cctcctctgt ggtacggtct agcaaacggt gcactctgtgc 60
attcatcgca tccactaaca gacgttgagc gccgtccaac tgatggtact cgtcaccacc 120
accacctgct ccagccataa ttcaacagga aaaaaaaaaat gtgcaataaa aattattaag 180
gtttcaggac ctcaaacac tctactcacg tctcttagat ggtagtacac tctgttttaa 240
tgctctcaat aggcctttgt gtaatgtatt ccctcttgcc ttttaccact cgtgtttcct 300
cttaagttcc tggatggacc aaattagaca cacaaggtaa tataaaataa aaggaaagac 360
aatataatga tcacaaacag atttgatttg ggat 394

<210> 20309
<211> 387

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20309

tcgccggatg atgccgatcg aacatttccc aagcgacatc atccaattgt tcttcagggg 60
ttgaatagaa taaacaatgg ccggtgtcgg tcactatatg gccccgactg atatccttca 120
gccgacattg cgcaatttct ttacaaaacg ctggccgaaa atgttttttt acggtagagg 180
aagttttttg tttttgggtt ccctaaaaaa attgcaatgt aggtcgggta gggtttttcc 240
gtgcgaagct caacctgang gttgtgcttc gggcgacact gacatgttct catttagtcg 300
gccaaaaaac cgttacccaa ccccgaggagg aaaaaaacca tctttcacia aaatggatgg 360
aaaaaaaaat gatacctgac gtcggcg 387

<210> 20310
<211> 387
<212> DNA
<213> Glycine max

<400> 20310

agcttattct ttttggcctt gcaagcgaag gagctcatca caaccaacac gcttacactg 60
cagcaagatg tttgtacctg gtaattgggt cagttagctt tttatatcag aaaatattaa 120
ttgttaattt tgttagtttt tattaagagg gaatcaaact cgagcctttt tttgtcttta 180
cttccttttt aacctctcaa tcaattttat attccgaatt ggtttggtta cttaattaat 240
actttgtggg tcttcctctt cccactatg tatttcattg catgtatagt gtatacaact 300
tagcaattac gtaacgtaat atatatgtac tgtgttgtgt tatactggga tgtaggattt 360
ggagaagcat caccagaagc aaaggct 387

<210> 20311
<211> 445
<212> DNA
<213> Glycine max

<400> 20311

tgatctgcta tagggttacc atcagattcg gatgcattat gctgatatcc ccaagattgc 60
tttcagaacc caccacgtcc attacgagtt taacgtattg ttgtttgggt tgtgcaacgc 120

accgctgctcc ttccaagcca ccatgaacct gcttttttcca tcgtatctcc gccacttcat 180
catcgtcttc ttcgacgata tcctcatata cagttcttct ttcgaggctc acctgagcca 240
tttgaaaact gcttttcagg tgctgcttga caatcattct gttttgaaat tgtctaaatg 300
tttctttgtg cagcctcagg tggagtaacct tggacacatg gtttcttgac gaggagtggg 360
acctgtggct tctaaagtgc cagccattca tcaatggcat gttcctcatt ccatcaaagt 420
cgttcgcatc tttctaggcc tcgca 445

<210> 20312
<211> 389
<212> DNA
<213> Glycine max

<400> 20312

agcttcttag tttcagatga tgcagatggg tttgtagcta cctcatgcac tcctctaattg 60
actatggcat catttctggc gctaaactgc taggagttgg aagccatctt ctctattaaa 120
tttctggctt cagcaggagt catgtctcca agggctccat cactggtaga atctatcata 180
cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240
tgatggtggg ggcaactggc acatagtttc ttaaattctt cccagtactc atacaggctc 300
tctccactga gttgtctaatt acctgagata tatttctctaa tggttgtggt cctggaagca 360
cggataatgt tttctaagaa tactctctt 389

<210> 20313
<211> 438
<212> DNA
<213> Glycine max

<400> 20313

tcaagaataa tgacatcatc caattattta tttcccgaag ggaattctat aaataggcct 60
cctattttta atggcgtggg ttaccattat tggaaaaccc gcatgcaaatt ttttatagag 120
gtaatagatc tgaatatctg ggaagcaata gaaattgggc cctacattcc cactatgggtg 180
gcaggaaata caaccataga aaaacctagg gaagaatcga gtgaggaaga aaagagatta 240
gttcattaca atttaaaagc caaaaatata attacatctg ctttaggaat ggatgagtac 300
tttagggat caaattgtaa aagtgcacaa gatatgtggg ataccctaca attaacacat 360

gaagggtacaa cagatgtaaa aagatctagg ataaatacat tgactcgtga atatgaatta 420
 tttagaatga atccaaat 438

<210> 20314
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 20314

agcttgtata tattgtttgt gaaggacaaa agtgacttag tgataaagaa tacttgggtc 60
 ttaatcttag gggaagatta agtgtagtgc caggagtgc ctatagagta ctcattgtag 120
 ctagaagtgg catagagaat acttgattgt aatcaaagaa ttaattagtg aaatccttca 180
 aagtttgaag gaaaactgga cgtagcccaa gagttgggat gaaccaatat aaaacttgtg 240
 ttttctttac tgcttctata taactagtgc ttttccatat gttactccta cactactcta 300
 tccaagtttt gtgaactgat tttctaagca cataatgatt tcaaaccct tggacgaaac 360
 ccaacgtcta ttaatatcta tttgagaaa 389

<210> 20315
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20315

ntacagaaat aagacacaaa ctatcttgca caaaaacatt ccttcattta ttcttgtaaa 60
 actttctata attctttgta taaacactaa gctctcaaaa catctttgta aaccttgaga 120
 gaaaagacta aaagtactga gaaatatata tgtttgcaat atgatatgat attagtctgt 180
 gtgaaaacct ccaacaaatc ttattgattt gtctagaacc aacagtggct aagggtgagg 240
 aaccttggct ggggttatag ctaacactga attatcgagt agatatggga gcaagtttagc 300
 ataggacacc gaaattgggg tgaattctat aggccttttc gttggaatat tccctccctg 360
 gttggcatct tggtttgtgt taagggtggt gtttggcatt ggatgtgcgg caggcaggct 420
 ctgtggttga t 431

<210> 20316
 <211> 394

<212> DNA
<213> Glycine max

<400> 20316

agcttctaga gcatgtatct ttacttgaca actatcatga gttgacagct tgtagaacca 60
ttctgaggta ttctttttga gggtcccatt ttgaggaacc tttctaata ga cattctgaa 120
ggatcattac aatagttatt atgatgtttg ctgagaaaaa aattcatact tgatagattc 180
tggtgatgaa gttcatgttg ataaaccttt atgaagtagt acaacttcat caaacttgac 240
acttcttcat agctgcaaac atttataagt agattgcttc aaaaacacta agtgaagatt 300
caattgttgg tgtgatagtg ttttgtccat agttagacag tgtagtatct tcagacttct 360
attatgatgc ttctcatcaa agcatgaatc gtat 394

<210> 20317
<211> 444
<212> DNA
<213> Glycine max

<400> 20317

taatacacccg ccactacatc taataaatga aaaattatta atttaatgca tactatgcta 60
ctcatgtaac aatgaatttg agattcatat taccttgtaa ccaatgaata cgatgggtgc 120
cgattaactc ttgctgcaat gaagggcata cgataccatg cccaagattg caacaatgac 180
gcacagccac ccattggttt ggcatcaagg ttagtggtc tacacaattc tttgtacaat 240
gttgctagac aagcagagcc ccaactatat cacctgactc agttgagatc agcaaacaca 300
atgagatata tcaaatgaac ccaatttctc atcttggtcg gcattaaaac cccaccaatt 360
agccgcaaaa tgtaagcttt acaattctct tctaactgtt gttgtgttgg ttctgaggga 420
agtgaacat attatcttgc aatc 444

<210> 20318
<211> 382
<212> DNA
<213> Glycine max

<400> 20318

ttgctttaca tcccgatcaa gagctcggaa aagggatgct aatactgctg cactcctact 60
gtaatgactt gcctcaatca aattcgataa tcaaatgata tacataaaat gaactctcgc 120

acctgatgta tctggcatca aacagtcgcc tatcagcatc atgatatgag ctatagcatg 180
 ttttgaatg acaacatcac cagcattaac tggaagttgc tgacaatttt gctgcgacca 240
 acttagataa atcattttac cctttacata cttaccatgt ggagtgtgcc ttattttatgc 300
 ttgacgagca acacgtacat caccggcgat gatactagtt atcaacagtc catcaatcct 360
 caggcccaac tgtatgggtca ca 382

<210> 20319
 <211> 439
 <212> DNA
 <213> Glycine max
 <400> 20319

tattaaagaa tacattttatg ctggatttag aggtcttatt gcaaaaataaa ttatcataaa 60
 tatcatattg ggccttaaaa aaagcttata gccttaaata agtttgattc gcctcttata 120
 aagggtaaag tctatctatt tttatctttt tgtctcatgt atgagtaaca atgattttta 180
 tattatattt tacataaagt ttgttttctc attggcccat taaccgatta aactatttta 240
 tgccaaatta tacttttttg aaatctttta tatgaaataa gttaaataaa ctaatagatt 300
 aaacttaact tccaaaaaga tgtaatcaaa tttgtgtact tagttgccat ggaattcaat 360
 gaattccttt gaaacttggg tgcgagggtt gagggctcta aaacgaaacc agaaatgcag 420
 gaaggcttac acagacaat 439

<210> 20320
 <211> 385
 <212> DNA
 <213> Glycine max
 <400> 20320

agcttgctca aaacaaaatc taacattccg atccactcaa ttcatacaat ttctcattca 60
 actcaatcac aacacttcat ttcatacgaa atcaaaccac tgaatatcat attcaatcag 120
 ttcactgttc aaacatgctt ttgtacaagc tacaacact aaaacaacat aaattttaaa 180
 gtctggaatt taaaagacta ataaagcata aactaaataa ctgataaaat aaaactgttc 240
 ataatttgca aaaaatttta aaaaaaaact atgcaaaatt taaaactctt ggatcatccta 300
 ctgctgggtct tctgcatgct cgttcagatc cagcactaga gcagctggtg gatcctgtga 360

aatgggatgc tcttgctcca atgct 385

<210> 20321
<211> 439
<212> DNA
<213> Glycine max

<400> 20321

tgtaggatta tggcgtaccc atcacatgtg gtactaggtg gcggtcgggc gatggtgcac 60
aacaagtttt ccacatgcac aatgcgcgca taaaccacc atcccctgtt gccacacctc 120
aactgagctc acgtactccc acgtagccca tatgctcggt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc acaacatcca agcaaaacaa cattcaaaca gcacaagcta 240
tcacagccaa gcaaaacaga gcaaaggcag aaaactttgc caaaacacca accaaatcac 300
aacttttctc acttaaagac ccagtaaca attccttcca tccaattcgt taaccgttgg 360
atcgactcca aaattttact ggaagtctat agtacatgaa cctacattgt gaccgttggg 420
atctactagc aaacatcca 439

<210> 20322
<211> 397
<212> DNA
<213> Glycine max

<400> 20322

ttgcttctat gctgcaccaa cgactatgta ttattaactt agcatatcta cactttaaca 60
tatagcatga aatgaagagc ctgctagatc tgactaccta taagcgaact ttacatttta 120
tatataaata taatgaacta ttccttgatt caatacacgc tagcaggaca ccgacagatg 180
ctttgaaagt ctcataccga tatacatggt ccaggatagt gacaaccatt cgtgctcaac 240
gacgcgttct accttcctta ggtatatgca gcagcacatg atcatgtata atcttatata 300
tgacaattgc tagttatata tgttgaggga aatcttctt aagatgtaat ttctattggg 360
agacgtccgg gatatcaaga aaatgtaatc aaaaaat 397

<210> 20323
<211> 439
<212> DNA
<213> Glycine max

<400> 20323

ttgataaata tttatatgaa atatattcac ttaaaatgct atatatttag ggtaataatg 60
gatggagaca ttatacgttt ttgttactaa agattttatt taactaaatt taaattgttc 120
gtataaacia tttaaactaa ttatatgatg tattgtatta attaataatt aataatactg 180
cattaataga atatatatat atatatatat atatatatat atatatatat atatatatat 240
atatatatat atatatatat atatatatat atatatatat atatatatat atattttacgc 300
atataaatat atatagaatt ttttggtttt agtatttcgt atattccaca actagatagg 360
atctctatag ataatgagat atgtatatgg cattatatat ataacattga tgaatagatat 420
gttctctacc gatgtcttt 439

<210> 20324

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20324

atgtctttat ttgtgtggga cggcgggctc tcttcgactt gttgtattcg acgctaactc 60
ttaccgtaag attacttgcc gcgacgctag tgatcatgtg cgtactgatt ggctctttac 120
ctggactata catccacga ttgtcatggg tgtataacat gctggaaatg tcgacaatgt 180
gtatgactac tgcacgcctg ccgtgattag cgatgaacca gcatacaacg tgccgtctta 240
tactggcact agacaaacag cgctgtccca tgagggactc ctacgctgat atgtccacca 300
cctgtgaact agatgtatat cagcacataa tcgattctaa cgccgttgga ccataccgca 360
cggctgatag tctctcttcc agaattatcn 390

<210> 20325

<211> 409

<212> DNA

<213> Glycine max

<400> 20325

ggttcagagg acttaccctg tgaagatcga agatcgatga agaacgaatg aagaacgtcg 60
aagaacgggt gtttcctttg cgagattcct cacggaaaac gttacggaaa cgtttcggaa 120

gagcctcggc ttagattttc ttcacggaaa caatttttcc aagcaaattt gaaagagaga 180
gaagtgccta aggggctgga ccccttcctt cttcatttcc tcccctattt atagcaaaat 240
aggggaggtg gttgcccggc agctcgccca ggcgagctca gctcgcccag gcgagcaggg 300
ttgcttcttc cagaagcaac cgccttctgg aggaatcttc tggaggggccc aagtggggcct 360
gggtgctatt tgcaccccca ttgttactaa gtacaccccc ctctgcctt 409

<210> 20326
<211> 392
<212> DNA
<213> Glycine max

<400> 20326

tagcttatca cttttacatt aaaaaatata tatttttctt ttctagttga tatcattaca 60
tatgtgcgtt gttgaaattt aaatatgcc a ttctactgtt tatggaaaaa tatggagaaa 120
ttaacgagga aattaagtca aaagatgggt aaaataaggg aaaagtgcaa tgcagtcgca 180
aggttggaat ttatactgtg ccataagccc ataaccataa gagtaatcat atttcaatat 240
tccaacggct gctacatctt tttttccgaa ggctgctaca tcttattatt gacacttatt 300
acttttcgag tttaataatt atttggtgac aatataaaat aatcatcact taaataaaact 360
attattgata taattaattc taaataatta tt 392

<210> 20327
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20327

tctgtggttt tttatcagca aagataaata tattcatata tatgaaaaga gtaccagagg 60
tactttaata cagctgtttg gtttctgaga tttggttcct aaacagatta gattaaatct 120
agaaaggagc caaaaccagg cacctattac acttttagta ttagcttaa accagaattg 180
catcatctac taatacataa accttgctcc aagattacta ggagagataa tctgtttggt 240
tgaaaagttg cacatgggag tctctagtgc ttacttatgt ggtgtathtt gttagttggt 300
tgttctggtg tctgtaactc ttgagggcta caacatctca caccttgatg ccgttggtca 360
acttctcttt tataaaaata ccatcccaat tntctctatg aatttgaata agattcatac 420

aataatagca tc

432

<210> 20328
<211> 378
<212> DNA
<213> Glycine max

<400> 20328

agctttaacg taaacaaaa caccaaccaa gaaatgaatt ttgcagcgag aaagccttag 60
aattcacccc aattccagtg tcttatgctg acttgctccc atatctactt gataattcaa 120
tggtagccat aaccctaacc aagggttcac aacctccatt tgtccgagaa tactactcga 180
acgcaacgtg tgcttgatc ggagaagccc cggggcattc cattgagcat tgtagggggc 240
tgaagcgtaa ggtgcaaggt ctaattgatg cgggctggct gaaatttgag gagaatcgca 300
tgtaaatcct gacattaaca agagatgcc aacatgggtgc aattttgaaa gttgttggtta 360
gatgtctctg atgactca 378

<210> 20329
<211> 431
<212> DNA
<213> Glycine max

<400> 20329

tcacatctcg tattcgcgtc attctgatct tagtataaag gtaaccgatc tacaatgtat 60
aaatgaggat tcatgtcatg agtaatgttt gtaagagttc agtgtaatga tgaaaaccag 120
aaaggtaaag tgaacaaatc ttgtgcaact atgatcaa atgggtccat ccgttatata 180
agcatatcta gacctatttg ttttgggata tacagtttac tgaccatgag attctagttt 240
tggacctatg gttttcaggt tgaagtaagc atgtagctgt gtcaatatat gctgaaaaga 300
cttccactgg atctttcccg atttccctta ttattatttg ttgtggaatt tcttgaatgc 360
attaatgtca agtatcctgt cccaaataat aaattcatat tctctgttca ttatgcttgg 420
caggcgaggg g 431

<210> 20330
<211> 372
<212> DNA
<213> Glycine max

<400> 20330

agcttgtcac ccagctcgcc caggcaagcc aggttgcac ttccaaaagc aactgccttc 60

tggaggaaca tcctggaagg cctagtgggc ctggtttcta tttttaccct tttttagtaa 120

atacaccccc atttgctttt tttggtgatt atttttctgt aatgttacia aactttacga 180

atttcgtaac gatacttggt ttattttctgt aaggttacgg aacctttcgg gtcattgta 240

tactcctttt ttagctttcg gaatgttacg gaaactcacg gattgcgtaa caatacttcc 300

ttttgatttc cggcatgtta tggaatttca cggattgcgt aacaatgctt ccttttgatt 360

tccggcatgt ct 372

<210> 20331

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20331

ttngnacaag cctataccaa ggctcaaata aacttgaaag ttctagacaa ctttcccaag 60

gtgtggaaga caacaagcac ccaaaatgct agagacctaa agaacctttc ctaggatgaa 120

ctgttggggg ttcttagagt ccatgaagcc aacctttcga atagatatca tatgtgtcat 180

accctaattt cgtccggggg tcattatttg atgatataca acctttgatt ggccgcttcg 240

agatactggg caccctttgt tttacaatat gtgaagtccc gagacgtgcc aaaaaatcaa 300

aaggaagcag gcttacgcga tccatgaaaa ttccgtaatg tgacagaaat cgaaatgagg 360

tgtttatcgc aatccgtgag ttttcgaaac ttcttcgaaa gctaaaaaag agtaaattca 420

taattctgtg 429

<210> 20332

<211> 387

<212> DNA

<213> Glycine max

<400> 20332

agctttacaa cagatttttag taatgaccca ctaacctaga attaaaataa cttaatgcc 60

ttaacctagg gaattaaaaa aaaaaactta atggctgagt gtaactgaaa ttgtggcaac 120

caaaagtcac cccaacagc caacaagtca gccaccattt ggtctcccaa aaggttgagg 180
 cctaggttgc caattgggccc cttattacaa cttgaactaa acctactaaa gccctttaag 240
 ttgattaacc caaaacatat ttttgggtcag ccaactttac aaggattggg ccattattta 300
 gacaaactaa acactctaaa attgagacaa agtgggtgcc tttagtcctc ctccatttgg 360
 gccatgatac aactcacaac cttggac 387

<210> 20333
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 20333

tgtggattac gggttggttg tgcattgttg gcagactttg aagaagcttg tggttaaagg 60
 gtctgttttg tctttctcat aatctttgaa ggagcttgta gtaaggggt ttgttttttc 120
 tttttcacia tatttgaaga agcttgtgtt tgaggtgctt gtttcttta attcagctaa 180
 ccaccttttg gttgaattcc ctaaaccaat aataagtgtc attttaagta attaacatat 240
 aaaagatggt aactaatgta aataaagatt agagacttac caagttactt tcttatttag 300
 ttgtgcac tttgtcattc ttctgtgttg gagggataag ttctttctta gcttgattga 360
 ataacatgta ctatgttgct attcctagtg actctgctgt caagaactgt gttgttattg 420
 tggcgctcct aaattaatga ct 442

<210> 20334
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 20334

agcttcttgc ttgaaaataa gatgacttat aggagtaatt ttcttcccat acaagtactt 60
 ggatggaagt atattttcaa gttaatccac catgtaatat tcttgtttac tactacttca 120
 taacctactc ataaaaaact attgaatcta ttgactaaca atttttattt ttcacttttc 180
 tttgtcaaga gtatgttggt aggtctggat gatcattcat acctatatta ggttttgatg 240
 attaacaaag aatataagtg gttgatatat taatgatgag ttacgacaa gtggatatga 300
 tcaatgttat taacgagctt aactgttacg acaagaaaaa aatactttgt ttattattaa 360

ctagcatcta acgcgcta atcaagagca t

391

<210> 20335

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20335

tgcattgtcca agttttcttgt gccataccca gggatttcct ttgatagata atagacatgt 60

tacatcttga tttgatagtt cactaggatt aatcttataa agttttcttt tcctcttagc 120

agtaaaaatt tgggtcccat tttcgtgttg gatgacacac ccacctttgc tgaaggaaac 180

atcaagtcca atctcacata attgacttat gctaagcaga ttgtatttaa gtcctttaac 240

aaatagtaca ttctcaatgg gaggataggg atcaatactt atctttccta ctctttctat 300

cttcctccg aaaatgattg ctccaccatg catgagggtc agacattgga atatacattt 360

ttctcatgtc atgtgatgtg agcagccact gtccagggtc catgattggt gtgtttntgt 420

tgtggttgaa tatatccgca acaag 445

<210> 20336

<211> 393

<212> DNA

<213> Glycine max

<400> 20336

agctttatgc ttgcttctta atctttttct ttcttggtcg ggttttagcc ctttattcca 60

gaaaaaaaaa aatacaatat ttgaaagaga aagattcggt acaaacacca actaaaatat 120

aaaatatggt gcttaacttg ctttactttt aacctgctga tgtctttgaa gatagaaaaa 180

aaaatgaata ttcacgactc aaatgaagta aagaaaaaga aaacagaata taatggatag 240

aacattatat attttgtacg tgcagtaaag ggggcgaata aacacaaaat tgaagaaagt 300

agcaagagag gggcgggtgg tgcacaatcg aaatcttgaa gaggaaaaat acattatatt 360

cgtgcatatg cttattagat aggggggggat act 393

<210> 20337

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n. locations
 <400> 20337

ctgttgtctc taattntaaa ctttcaaagt tatcagatac ttgagtagaa atttctaaag 60
 aattatctat cttttcttca tgtttccctt gaagttgttt ataatctttt gaaacactat 120
 tgaagtcctt tctcaaattt tgataagcta tggacaaaagt ggatgagttg gagagaagtt 180
 cttgatattc taattgaaga gtttcaaggt tgtttatatt tacctcttca tctgattctg 240
 aattagatcc ttctgatgta gtgtctacta tcaaacatag gtaggctttt tcttcttctt 300
 cttttttctt cattggatgg tgtgttgtcc atctctttcc atgtgcttat caataatttc 360
 ttgttctttg gtttgaagta ctttttcttg tcagttatct tatcaagatc tggacattct 420
 gacttgaaat gtcttagttt 440

<210> 20338
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20338
 agctttattc tatctgcaat gtttaacaac ttaaaggacc aatgtctgat tctccccact 60
 atcttctcca caagaggcag gtaatgatgg acattgagtt tcttgcaaga caaaggaacc 120
 cccaaatatac ggacaggcag agatccctct tcaaaccttg tgatcttctt tataactcga 180
 atgatgtcac aattcaagcc accacaaaac accttacact ttgttggatt aatctgtagt 240
 cctgtagact tacaaaagaa actgaaagcc tttagaatca tctctataga cttctcatca 300
 cctctacaaa gaagaagaac atcatctgca aagggcaaata gagtaatcct caatcgctca 360
 cattggctgt gattattaaa gttaggatct ct 392

<210> 20339
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 20339
 tgtaagacaa aatacgagat ggaggcgagc aaggacaaaa tggcgttgtc gagaagggtca 60
 tggatgatgct ccttgatggg catcacgcca gtttttgcag tgctgcctcc agactcgacg 120

acatcactat taaccaacag atagaagatg ccacaataat gttattgttg ttgtagattc 180
 gcatctcctt ttagtgcacg acaccgaggc atgcacttct cgacgggcct caacaatggc 240
 gatgttgctg caattttgta gatctacctt tttcgaactg ttgttttagg gaggatgaga 300
 ggtgaagggtg gagcaatcat tgagtgaggg caacatgaat aaacaatgta taccacaact 360
 aggatTTTTT aaagggtgaa actgaagtgg tcttccatgt gtccatattt acttctaattg 420
 atcttctgct accttctcac 440

<210> 20340
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20340

agctttgatg atatggtctt caccgacgaa aggatcaaag tgggtctgaa aagaggcaaa 60
 tctgatcatc ttgctttgat aaatgcaaaa aaaaaaaagt tggggcaaat aaagaggggtg 120
 aggatgaagg agaagcccggt gctgtgactg ccatttctat acagccaagt ttcccatcaa 180
 cccaacgatg tcattactca gccataaacc aaccttctcc ttaccacacg ccagttatc 240
 caciaaggcc atccctaaaa taaccacaaa gtctatcgtc cgcaattcca atgacgaaca 300
 tcacctttag cacaaaccaa gagcaccaac caagaaatga attntggagc gagaaagcct 360
 gtagaattca cccaattcc agtgtcttat gctgacttg 399

<210> 20341
 <211> 443
 <212> DNA
 <213> Glycine max
 <400> 20341

taaagtatgc ccgagtcatt catccctatg agatgttggt gaagtattgg cgatcagaat 60
 tgccattcct tggattatag ggttgaacca agctcatgct ttacaaaaa ggttcatcaa 120
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180
 acatcactgc ttcgtctact gccaaacaca tttaggatta ttgatgtcct tgttacttcc 240
 agtttcacct tgacaaagat gtcgtggacc atgttgaaaa tctaaattga ttcaacccca 300
 tatcctgcgt aaaaattcgc aatcttcaac tgtacatcat tcgcatacat ccatgctttt 360

cattggttgc attgctcatt gcattctttc cttgaaaaag aaaataaaaa taaataaata 420
aataaaataa aataaaaatg atc 443

<210> 20342
<211> 371
<212> DNA
<213> Glycine max

<400> 20342

ttgcttgaca cccagatcac ccatacgagc aagggttgctt ccttcagaag caccagactt 60
ctggatggcc caagtgggcc tggttgctat ttgcaccccc cattcttact aagtacaccc 120
tctgcctttt ttaggagata atttattcac aaagttacgg aaacttatga ttttcggttac 180
gatacttggtt ttctttccat aatgtgacgg aaccttgctg attacataat catccacttt 240
ctgacttact gaatgttacg gaacctaaact aattgtgcaa cgatgcttac atttaactat 300
ctgagtgtca cggataccta cagatagtgc ataatatatt cttttatttt ccggcacgat 360
ccagaattca c 371

<210> 20343
<211> 434
<212> DNA
<213> Glycine max

<400> 20343

tagagaatac taagtcgaag ttttgaaggt ttttaatgct ggtttgatg ttgcttccag 60
aggcaagcaa agaatttga gtggaatttg tagaggttta aaatataggg tgtagaagct 120
tgtagatgat tcaaaagaaa gaattccaaa attgtgtgct tgatcttaac ggaaaaatcc 180
tgccagtgtg ggtattggat gtagccaagg ttagggtgtg tgttgatctt ttatttactg 240
ttctcattta gttgtagcag ttacatatatt attcttaact ttgaaaaacc tttgtttcac 300
aaaagcttta ctcttatatt tcatcaaaag atttttacaa agtagatata atgttcagaa 360
gcaacatgca ccttgtaaaa gaaaagtga aatcaaaata tgtgagataa cataattggt 420
gatatgaaga gtag 434

<210> 20344
<211> 387

<212> DNA
<213> Glycine max

<400> 20344

ttgcttgtag aggatgcttc aatggaggaa aagaaagatg atgagaaaga gagagggggg 60
gagcatgaaa ttgaaggaat aaaaaggag agaatgtgaa atttgagttg tgtctcacia 120
gactctcatt catcaaagtt gcaacatgtg ctacacatgc ttctatttat aaattaggta 180
gcttccttga gaaactttct tgagaaaact ttcttgacaa gcttccttga gaaaactttc 240
ttgagaagct agagcttagc tacacacacc cctctcataa ctaagctcac ctcttgaga 300
agcttcctta agaagattcc tatagaagct agagcttagc tacacatacc tctctaatag 360
ctaagctcac ctcttgaga tgagaag 387

<210> 20345
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20345

ctttgattnt gacttgatag aaccttttct taatcagagg tgtttgattt gatcccatgt 60
ttaataaaat gaaaagtctt gtttgaatca atactctgat atcctatcat ggaggaaata 120
ggatgaattc atgaagggat gcttatgttg tgcattgacac aaatacattt tacggacatg 180
agagcccgga agatcgtctt ttcttacttg caacatttgg cagcacagtg ccccatgtat 240
gcatttaaga agacaatata gaccttccga ctctctgtga caaatgacg agaccaaag 300
caatgcatgc gcgacaacac aatacaaaca taaacgcata aaaacgcatt gttgatagca 360
cagaagagga acgtacaagc atgtcaatat catcaaaca ttatacaaca gagatgcaca 420
tgagcatgac actaaaaata 440

<210> 20346
<211> 363
<212> DNA
<213> Glycine max

<400> 20346

ttgcttttcc cccaattttc taaaaatagg gggagatgtg aagtagaaaa gggttcagcc 60

ccttatgcac ttctctctct ctcgaaatag ctgaggaaaa ttagttctgt gaagaaaatc 120
taagccgagg cacttccata acgttaccgt gacgattccg tgagttatta cggaagatt 180
ctcgaccgtt cttcaagatt catcgttcgt tcttcgtttt cttcagtctt gaacgggcaa 240
gtacctcaaa ccgagctttt caattcattc tatgtaccgc tgggtggcca cattttgttt 300
catgtgttgt gtattctcgt ttccatttac cttatatgcc cccttcagac gtgcctaagc 360
cat 363

<210> 20347
<211> 434
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20347

tctcccncaa ttttctataa atagggggag aagtgaagta taaaagggtt cagccctta 60
ggcacttctc tctctttcga atttgcttag gaaaattgtt tccgtgaaga aaatccaagc 120
cgaggcgctt ccgtaacgtt tccgtaacgt ttccgtgagt gatttcgcga aggttttcat 180
ccgttcttcg ttcttcaacg ggtaagtttg cgaatccgag actttcaatt cattttctgt 240
tttttttaat ctttcatctt tatttcgttc attttcgatt tcttttcttc cgtctttaac 300
gcgctttttac cgtttattta agccgttttc tcacctaata aatgataaaa tgaatttcaa 360
ccgatcattt gtgttgtaat ctcatttaat cactttttaa acgaaatcta accgaccgtt 420
cacgtataaa cctc 434

<210> 20348
<211> 391
<212> DNA
<213> Glycine max
<400> 20348

agctttgagc caatatcttg actcacgta aaccttgacc cagggtgaga atgtcaatcc 60
ttaccctcgg aagcaaaaaa aagaagagaa ggaaaatttc caatcaaagg aaaaaagaga 120
ggaaaggaaa ttcccaatca aagagtggga gaaagcaaaa agaaaagaaa gaaaattcct 180
aatcaaagaa tgggagaaag aaaaaaagag agaaggagaa gaaggaaaga aagctcctga 240
tcaacgatcg aaagaaaaca gaagaaatgt gcagagaggt ctttgacca gacaatatct 300

gaacaatacg gaattgtcac caaatgaaca aaagaaagaa aaggaaacca taacctaaaa 360
gtggtcttct ccctttgatt accaaccaaa a 391

<210> 20349
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20349

tgcccagaga atgagtccac ggaggaaatg cttaccacct caaaagactg gaaagcgggtt 60
tctaatact cctctgcggc ttccacataa ggcatagagg acgggcagct caccaagagg 120
tcttcctcgc ctgacacgat gaccaaatgc ccctccacta cgaatttcaa cttttgggtgg 180
agtgtagagg gaacaactcc cactgagctg atccacgggc gcccacacag acagctgtag 240
gggggggttaa tatccattat ttggaagggtg acttgacagg tgtgagggcc tatttgtact 300
gggagatcga tctctccct aacctctcgg cgggtgccgt caaaggcatg aaccaccatt 360
gaactcggct ntaagtggga agcattgaat ggtaatttct ccaaagtgtc cttaggcatc 420
atgtttaaac tggaaccat 439

<210> 20350
<211> 385
<212> DNA
<213> Glycine max
<400> 20350

agcttctctt ggactttaag caagcagcta actcgtcttt taagaccatg ctatgtgctc 60
gtgattggtc tctctctttc ccttcgaagc ttgagctcat tgttctgcc ccacaaagct 120
ccacgaaatt tgtcacgacc atgctcttcc ttgcgagccc tcttggtttc ttgttcaagg 180
gctcttgagg tagctgcatt ttctctttgt aaccagcac actctttccg aacgtctgta 240
tcgaccaact tgaatttttc ttggcaagt cttgcttttc ctatgtcggg ttttagagct 300
cggacttctt catcctcttc tggagcttcg aagttctctt cgtcgataat ctttaacttg 360
gagagccaat ctaacctca tgtac 385

<210> 20351

<211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20351

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ctcagctatg ctgcnacatt ataatagacc ccctcagaag catttccaac aacagcagaa 60
taattatgat ctttcaagca acagatacaa tccaggttgg aggaatcatc caaatttgag 120
atggacaagt cctccacaac aacaacagcc tgtccctacc ttccagaatg ttgttggtcc 180
aagcaagcca tatgttcttc ctccaatgca ataacagtag cagaagtcac aacaaagaca 240
acaagcaact gaggctcttc ctcaaccttc cttagaagag ttagtgaggc aaataaccat 300
ccaaaatatg caatttcaat aagagacaag agcctccatt cagagtctga caaattagat 360
ggagcaaatz gctactcagt taaaccaagc tcagttccaa aattctgaca aattgccttc 420
acagactgtg caaaatccga aaaatz 446
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<210> 20352
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 20352

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agctttatgc cattcggaat aggggctcgt gtctgtgttg gacaacactt agccatgaca 60
gaactgaagg tgattttgtc tctcattctg ttgaagtttc acttctctct ctcattaagt 120
tactgccatt cacctgcctt ccgtttgggt atagaacctg gccagggagt tgttcttaag 180
atgacaagaa tttaagcaac aatgtaacag atgaatgatg aaaacatgca ggtaattggga 240
tggttgatat agtcataaga catcatttct ctagctgatg aatgctaata agtctttttt 300
tttatccaaa ttagataata atattttttt tttatgacag gaagatattc tcatacttcg 360
aagttatgag acgaaga 377
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<210> 20353
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20353

tgttcttctc caccacgtng aagaccgtga catctctctt tttcttttcc atcgccacct 60
 tacctaggta cgttttgtca aagctttgtt gttctattga atacttaggt cagcttgggg 120
 aactcatggt taaccaagg accttttttg gtttctactg caaggattgg ggaacttgta 180
 gtgacctgag gtaegtgtgt tgtcgcggtc actggtgctg aaaggctctc attttgattg 240
 aggcaagtcg tgctcacttt gtagttcttt gaatgcttaa tgtctgttgt aaaactaggg 300
 tagcatagtg tattgtagtg tagtgttctt cattctgttt gaggtagcgt agttaacttg 360
 tatgttcatt ctgtttcatg tacattgtta caaactgcat tctacggaat aatagttaac 420
 tcgtatgaac t 431

<210> 20354
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20354

agcttattag tgggaaatth tgtaagactt aattcacccc cccccctct taagttattg 60
 aggccacttg tccaacaagg acactatctt aatgagctta agcattatct cgatggtagg 120
 tatatttctc cttgtgaaag agaccacttg ttgttgaaag attgtacttt cattttctgg 180
 tttgattcaa taatatttga agatgatgac aacattgatg ctttgctctc caagccaatt 240
 gttaaggagt ccatgtttac ttggctacaa gctaatagca ttttcaatga aggaaaacat 300
 ctaacatatg tgcaattcat aacaaagttt acatatgtag ccaaggatag atgttggaag 360
 ccacgcanag gaggttatac aattgacagg ct 392

<210> 20355
 <211> 441
 <212> DNA
 <213> Glycine max
 <400> 20355

tgttacagaa ctaggaaaa atcaagaaca agcttggtcg cacatcgttc gcgtgttcga 60
 tatccactcg acaaggtttg aagtagagga gaccttcaat cctataacgc aacgtggcgg 120
 aaaaaaatgg gcagttaact tgaatggcca ttattgtcaa tgcggaaggt attctgcgct 180
 tcactatcca tgttcacaca ttattgcagc ttgtgggttac gtgagcatga actactacca 240

atatatagat gttgattaca ccaatgagca catcttataa gcatactccg cacagtgggtg 300
gcctcttggg aatgaaacgg caattactgc ttctgatgag gcatggacac taatccctga 360
cccaactaca attcgtgcga aaggtcggtc aaaatcaaca aggataagga atgatatgga 420
ttgagtcaaa ccatctgacc a 441

<210> 20356
<211> 390
<212> DNA
<213> Glycine max

<400> 20356

agctttatat gatatcaaac gaaatttttt gcaacctaac atgtttattg ttaacattat 60
aaacatcttt gttaattaaa tgacaattat ttaagcagta atatataatt gtttattaca 120
ttttgtttgc acccaagcca ttgcacaatg ctttctattt tcaatgtgta gttgggtgta 180
taggataagt gtttttagtg cttccagact agccgttttag tagcttggtg ccaacctaaag 240
aatttttgta gccttgta caaccttatt cacaagaaca caattcaggt gatagagtta 300
gatggaaaat tataataatt ttttaactat aaatataaat aaatatttgt gcccacatc 360
tagattcaat tattgtgaat ggagtaagct 390

<210> 20357
<211> 451
<212> DNA
<213> Glycine max

<400> 20357

cgctttcttt ctaatcaatc tgtctattga ctaacatttc taattgcaat ctacaaaact 60
tgctctttct ttgtctatca tacatatttg ctcaaactca tgataaaaaca aaatcttcat 120
ttcaacctag tattcaatcc ataatcacca ttcaaactc ttatcaaact gcattttcaa 180
agaatcaagt taaactgttc tttatgcac aggactttca aaatgtttcc aaaacaaaaa 240
gtatgctata aacctatttc acatgccaca aaccataata gttcatagct actaaaacca 300
tacaaccact atactacaca aacataataa ttaaaatgta ctaagaatga tataattata 360
ataataatta ggacatgtaa tcaaactttg tcattcatct cgatcctgct cctcatcatc 420
gaaatgtaac actggcggtg atgcaatcct a 451

<210> 20358
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20358

agcttcttgc cattttaatg tctgcagttc acaataaaga caagtagatg aagacataac 60
 aagtaaattc ttgaataata ctaatacact acaatctatt gcagttttga ttttaccttt 120
 gattcatcat tagcttcttt ggcagcagaa gcaaattctt gaatcgaagt atttagtgga 180
 tgtagagtaa tctgcttgtc taacaagtag ctgagtatgt tattgtagac ctgtccaaag 240
 tacgggaaga ttatagactc agtaatgata taggaacact tccaagttcc aacgaagcca 300
 taacagtgca acattaaaat tgaataattg ataaatattt attcaattca cccacattt 360
 tactctcttt gcctctgcc aatatttagc ct 392

<210> 20359
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 20359

gaccttcaca ctgcgcttac atgtccaggc ctggactgtc tgggccaaaa tggttagaca 60
 atgggtgatt tttatgccat gcaatacgaat ttgacagact ccaaaatctg cattgaagaa 120
 gagctaaacc ctatcagcac atatgcacca gagatatact gctatatatc tatacgcaat 180
 gataatgtta ttccacattt tggagtaaat taaagtgaag gactatacat acacgataag 240
 aatgatcaag aaggcagaat gatttgcttc cacatgctat tggggatgct aaacgaagag 300
 acataccata aaaaggacaa tgaaatgtac aatgcgtgat tgtatgttgc gtatactcca 360
 taatacgagt gatcgacagg cccgtagcaa taatcattat cccgcacttt ttcgtgagtg 420
 tccaacga 428

<210> 20360
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 20360

agcttttgtc cacttttagaa ccacttgaat ccgttcaaag gttcaacgcc ttaaacggtc 60
 tttttacttt taaacgatta aaatgaacct ttagaagtct aacatcaaac ttatgtgtaa 120
 ttttctttca tcaaagaact atgtaggtct gagttttctca tcgcaattga ggatacatag 180
 gagcaagagc cccgctattg tcgaccccaa aaagataaaa aacataaaaa atggaaaata 240
 aaagaaactt ggtgtcatga ttttgcacac ttgattaaac gctgttgtcc cttgtgacgg 300
 acgcgtgggg tgctaatacc ttccccatgt ataaaaaact cttgaacctt tatttcttat 360
 aatttgtaga cccatttttg gattttctaa catttttcg 398

<210> 20361
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20361

tgtccttggg ttagacatga ttggtacatg atttgggact tgtagttatt aatttgggca 60
 aaattggatg agggaaagag tggttttcga aatctgcact gtatgcagaa ttttgctgtt 120
 gaaatgtgca gcaaaatfff gtataagtgc agaaaaaagc ttgtgtatgg ctggttgtaa 180
 aaagggattt acatatgggg ttctggaaat tatctaagag atcccagcgg tcaaaatgta 240
 gacttatgta ctanagactt ccagtaagat tttcgagtcg atccaacggg taacgaattc 300
 taacgatgga catgttactg ggggtatttg atgtgaaaag ctgtgattgt gggttgtgtt 360
 ctgggcagag tattctgcct ttgccttgtt ttgcttgggt ttgttagacc atgatgattg 420
 gatgtggaa 429

<210> 20362
 <211> 374
 <212> DNA
 <213> Glycine max
 <400> 20362

tagcttgtat cagctgttac atgataccaa atggaaattg caagcactac aaaaaaagc 60
 agaatgactt gccatgcaac ttgggacatt agcacaatga tagtcattaa ctagataagt 120
 gtaaacacta atccagctaa ttcggatggg atgtctgtgt ctacagcact ttgatccgta 180

tatggctata atcatcaaca caagaatggg tgaatctta ttacagctga taataatcaa 240
aagatagcac taatctatca cttaaagatc taacagtga actgacccta ctcgtaattc 300
ggcttgaagg tgtgggtgtca aaaaatgaaa catgtgccct taatacaatc cttcctagta 360
tgaagagggt gccca 374

<210> 20363
<211> 415
<212> DNA
<213> Glycine max

<400> 20363

cgagttcaac tgtccaactc tcttcataa tattctcggt ttgaaataat gggcaaaata 60
ttcactttgt ttcttaaaag tgccaaccga ggtatgggtca tgggttggcc ttttggctcc 120
tcatgacatc ctattagagt atacttactc cgtctagtat tgttactttg tgtattctgt 180
tatttgttgt ttgtaagctg tcagtggagt gacatggagt tacagctaag ctgttactga 240
gctgctcttt acttacagct ctaactatgt cagtaacaaa ttgggatagt taacacgccca 300
gctctctata tatagagggtg acactatgct cttgaacttg tctttctctt tcttgaccag 360
agagaaatca gagtctatca cactctatta ccgtatcaca cagcttgggt gcgat 415

<210> 20364
<211> 365
<212> DNA
<213> Glycine max

<400> 20364

agctttatac ctatgcttct ccttcttctc cttgaaaagg gccaggagag acacaccaga 60
aaccttcacg accttgaacc tgactccagg aatatcacc acggcatgac cttttcgtcc 120
aaatccagct atcatgactt cattctacaa ccatcaacca cataacatta ggataagcat 180
atcagcacca acataacagc aaaataaagt aaatatgatt gatgaatcac ttacattctc 240
ttcaatataa tttaagcaac cgctatttgg cacaaatgca gcaatcttct tccatttttg 300
atgagttgac cctggcacat tttcaatggc agagttgggc tgcttacctc ataccactgg 360
catag 365

<210> 20365

<211> 437
 <212> DNA
 <213> Glycine max

<400> 20365

ggcatgcatg gattacttat tacttattag gtgaatgtat ttttatccat ccctttgatc 60
 cggctcagtt agaagtagat tttacatgt ttgagttttg aaattagatt tgtattttta 120
 agcaggttca aattatattt taggtcatta ttttgggtac atttttttta acaaatattt 180
 caggtcattt taattcactt tagtatttaa ttgactgta aaacaatttt tcacactgtt 240
 atccaataac cactttttta attatttttag ttaataaatt tataatacat gataataagt 300
 cataattaga tgattgttta aaatttttct atattattaa tgtataacat ttttttcatt 360
 tttatatgtt tcttttaata taagttttat caacgatagc gtatcttata ttaatcttga 420
 tatacaatag caacaag 437

<210> 20366
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 20366

ttgcttgtaa ctaaataagg tttctgccaa tgtacacata ccttggtcct tgtatgaccc 60
 ttaacaaagt aatatggatt aaatctcgt aataatcttt cggatcaaat tacctaagat 120
 tgtaatcatc ctaaaaccca taggtccaaa tgccaataag atttgtatat ataggattga 180
 gattctcaat ttaaagggtc attgttcatt catttattac ttatatttat ggctttgagc 240
 cgaaacttta cttaagtatc agtatacctt ttgtaggtag ctcatccttc ggagcgagtg 300
 tttcaatgag tactactacg gaatgatgca ctgaagttaa cgacatgtct aagagcaaag 360
 catcaagtta tctttaggca ttaacatt 388

<210> 20367
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 20367

ctttcaaccg ttctttgtcg ttcgtcgttc gttcttcgtc gttcttcggt cttcaaccgg 60

taagttcccg aaatcgaact tttcaaatta acttttattt tcatttcatt tactttccgt 120
 accccctttc gacgtgcttt agtcatttac tttagtcatt ttctcgcta atcaaaaaat 180
 aaaataaatt tccaccgatc atttgatttg taatatccgt taatttctgt taaaatgaaa 240
 tctgaccgtt cggatcatgcc gtaaccacgt tggaaaccaa aaagaggtaa actaataata 300
 taataataaa aaaatatctt ttagtaaaat aaagcaaaaa aaaacaatcg gacgtttctc 360
 tttgagattt ctctttctta atcgaattga ctaataacta aagtgaaact aaggctaaca 420
 tcaactcgca aagt 434

<210> 20368
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20368

agtganatga gactgagact gagacctcga gnnccannac cangggctct gtgaacctct 60
 agagccgagc ctgacagcct gcttgccctt tgccatttcg ccagacaag caggggtggct 120
 tccttcatta tccacagtcc aatcgaggaa tcttcagtgc ggcccaaatg ggccatgttg 180
 ccatatgcac ccctattgat tactaagtgc accatatctg ccaccatttt gctgcgatac 240
 tttattcgca aagacactgg accttaccga ttattcaact atacctgcta tctttccaga 300
 atgttacagt accgtgagga tgacataatc atatccctac ataatgtacg gaatgttaca 360
 ttaccttcct aatagtgcc ccaagtcttg cttagatcat ccgagagata ctgaacccaa 420
 atgaatgtgc actacttatg tcagagatat cagcctgtcc acaatgacc 469

<210> 20369
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 20369

gcctcataga ggtccaggaa tgacaaggcg gttgtagtta tctgttctct cccggagcac 60
 gacagtcacc gcttgaggat cgtgtacacc acagcgcttc gaagccatca agggatggtc 120
 gattctccgg gagcgacgca gtccacgctt cagggacaga cgacgtatac tagacttttc 180
 catgagcgag atacggggcg caagcgggtg gcaccactgg ttactcctat ggccaagtat 240

gatccaaaac tagtccttga attttatgcc aatgcttggc ctacatagga gggcgtgcgt 300
gacatgagat actgggttat gggctatcgg attccattcg atgccgacgc tatcaaccag 360
ttcctgggat atccgaaggt gatggaag 388

<210> 20370
<211> 295
<212> DNA
<213> Glycine max

<400> 20370
ggggaaatga tgaggattct tttgataggc caaggtacaa aaaagtctaa ggttgtgttt 60
caatggggtc ttttatcgtg ggaacccaat gttgatatct ggagcaaac aaatttgggt 120
gtcaagggtg ctgtcttcgt ccaaactcct atatcactcc attatgaacg catgacaatg 180
atgatttgac aaccacatgc aaaattagtc atggctacag ccagggtgggc actcaagcat 240
cccatatatg gcatttgtgat actacggctg tgaatctaca catacagacc ctttg 295

<210> 20371
<211> 431
<212> DNA
<213> Glycine max

<400> 20371
ctttctgtgt ggagtgatga actctgtcgc gcattatggc ttgatcattg gctgacatat 60
tctcaattag ctcaattgcc tctagagggg tcttcagctt tatttttccc cttgctgaag 120
catcttgatg gaagcttgct tctggggctt ctatggaggc tggatctttg agcttcaatg 180
aggtccttta atgggtgattt tccaccatgg agatgcagtg gaagaaaaat gacaagaggt 240
gagaggaggg gccatccact aggggaataag ccatggaaga aggagcttca ccaccaagat 300
gagccttgga taagaagctt ggagaggatg tctcaatgga cgaaaagaac gaatgagaga 360
aagagaaaagg gggggagcac gacattgaag gaagacaaag ggagagaagt cgaactttga 420
gttgtgtctc a 431

<210> 20372
<211> 375
<212> DNA
<213> Glycine max

<400> 20372

ttgcgtgtta gcttgttctt catgccccag tgatgccaca ttgcgatttt atgcatggca 60
tggatgcctg ggtactataa ctttgatgac ttatgaaggc ggcacaccta tctgacttag 120
agagagatgc acatgcgctg cttatttctt acactcattt tcttattgag aggctaatat 180
ccaatcacca tccattggac agattgatgc atactcttta actggagttg atgatggctt 240
gtgttatgct tttatgatca actaacctga tttgcttctt catatacact agtgtgctct 300
tggagacgat gccgtatatc gactgatcat catgctcctt tatgctgatt accttgaaaa 360
gttcatcatt tctca 375

<210> 20373

<211> 413

<212> DNA

<213> Glycine max

<400> 20373

ctggaaaccg gagtgggtcat gacatcgact atggaactta ttctcagtat ggtgggtataa 60
ccatgggcaa atcaactctg tatatcgctc tcattagtct tcatatcgat aggagaaatt 120
ccacaagggt atcataacga ttgaatcggt catttaaata ataaattaac acagcagaca 180
tgataaaact tacctgtgtg taagtaataa aatatagtga ttaaaaactat atcttacact 240
gtcactataa tgatatcaaa tatcaagaga cttaaacatt gcatatttta tgggaacaaa 300
aataatggta ttgtcctact ctgatttgaa attgacttgg tgaacttcta aaaccatgta 360
tgagttggag gtactataat acatgaaatc cacttagacg ctaccaacca ttt 413

<210> 20374

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20374

cgtgggcttg agcttgactg acgccatcga aatcagggca atggatcttg gacccggaga 60
tgctctcagg cgacctgttt gctgtcatcc tttgaggcgc acgtagttag aagatatgta 120
agtgatacca tggctcttac atcgtgtaga gtatcctgaa ggaaccgttt tcatggatgt 180

aatctctatc ctcgacaggg gagtgctcaa ttataccatc catatgtatc gtagacttcg 240
 ataagaagca cctgcgtgta ctactataga gagaacttat gcacaatgct tactattcat 300
 ctaaatgatg ggaggcggtta cactagatgt aactttgatt aatgacagtc ttgtagactc 360
 ttgtactagc tcaacacctt tgacttttgcg tacatgataa cacgctccca cctgctctat 420
 tcttccacac taactctact acattgagcc tccttgactg agtcn 465

<210> 20375
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20375

ntgaccaa at cccagcaaca gttgtttcct tatagacttg tctcaacacc ttgtcttcga 60
 aactgaga at aattgcactg tgtgccttct gcagtagtgc tttcttatcc ccatcaccca 120
 tcatcttttc gagtttggct tttccatcaa gtgctttctac caagccatct tcaatcgcca 180
 tagtccaaaa ttatttttgc ctgtgaactt ttcaacctca cacttggccg agcccatttc 240
 ttgaatcgaa ctcaaaatcg ctccatgctc accgcaccaa tttgtttgtgc caagatcaga 300
 ttttaattca caaaagaatg agtttcttgt atgaacaaga ataagctaaa tgcaggaaaa 360
 aagatgaaca gaaaaactac actgtgtctca tagcaatcac ttttcatatc tctgcaaaaa 420
 a 421

<210> 20376
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 20376

agcttattcc gaggacagtt tattatcatg cacagcctgc aagagttggc tcataacagg 60
 ccaatcatac ctatagagca ttttcttgag caagtagcct ggctgaagc tcaacttcca 120
 ttggtgagac ccaacgaggc tgcccctcct gagcccacac ctacacaggt tgatccagag 180
 ccagcagacc cataatctcc agtgatgaat ccaccttctt ctctgagct tgaagtgggt 240
 ccccatctc cacctctgat tatcatctcc gatttcccat ctagagaaac tgctgctccc 300
 cctgattcac cagctggaga agtagctgat cccctgatt tcctagtgg aggagctgct 360

gatctttctg attcctcatc caaagaagtt 390

<210> 20377
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20377

tctggtggga catcttgatg caatcctccc taggaaggga ccaatcacta gaaccatgag 60
 caagaggctc caagaagatt gggctagagc tgctgaagaa ggccctaggg ttctcatgaa 120
 ccttagggta gatttctgag cccatgggcc aagggtgggt ccaattatct ttgtacatat 180
 tagactagga tgtcattata tttggtcctt gtatataggg ctccatattg taggtagggt 240
 accctagaaa tataggattt ttcagccctt gtattttttg ggcacctaga ctagttttta 300
 tattaggggt agtnttgtaa tttcacatgc actaagtgga tatttgatgt gtgtggttgg 360
 aaataaattt aattgaattg gtagaagccc aatccaatta aatnttagag ggggaggtga 420
 gcatttgctt actacacccc attg 444

<210> 20378
 <211> 421
 <212> DNA
 <213> Glycine max
 <400> 20378

ctcggaccgc ggatccttaa gcacctgcag ctgcagcttt tggttctcac ccaccatctt 60
 ttcatagtag agtaccgata atgtgtctac catcacgatt atcgtctccc ttccattat 120
 tgggggtacc acctgtgccg ccagatccct ccaccttttg ggcgtgttct ttgaatgatc 180
 cgtccccctt tttgcacatg ttctgtagat gcacctata cggaaccata tcaaaattgt 240
 actgatactg cctaacaaag gcaaccatta tgtccttcca agaattggact cggaagggtt 300
 ccaagttagt gtaccaggta acagctgccc cagtaagact ttcttggaag gaatgtatca 360
 gcaattcctc atcttttgcg tgttccccca tcttctgacg atacatcttt agatggttct 420
 t 421

<210> 20379

<211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20379

tataacatga ttntgtgttn cacatcccct ggagcatatt ttgacttatc attcaacaaa 60
 gacaagggac caccaactta cagaattcaa ggtcaatctt gccatctaata agggagttaa 120
 ttaccaatgc caggaaaacc tcctaaatct tctcacttgt atatctatgg tacagagaat 180
 aaaatccaaa atagaattgg aggcttaagg taaactataa ttcttataac agatactaaa 240
 gtcataataa taaattgatt gttcttaggt tatattaact tacaagttta ataatgcaga 300
 tttgggaacc aacttgatcc aaagattggt gccaaagtaa aagatatggt ttaccatcat 360
 aatgtctttg ctaaactctt cggaatggca aaggaaatat ttgagaagat aaaatcacat 420
 gatctgaaat tgcaatagat atctc 445

<210> 20380
 <211> 393
 <212> DNA
 <213> Glycine max
 <400> 20380

agctttttct tcttatctca tggaggtgag cttagctatt agagaggtat gtgtagctaa 60
 gctctagctt ctttaggaat cttctgaagg aagcttctca aggaggtaag cttagttatg 120
 agaggggtgt gtttagctaa gctctagctt ctcaagggaag ttttctcaaa gaagcttctc 180
 aaggaagttt tctcacgaaa gcttctccag gaagctacct agtctataaa tagaagcatg 240
 tgtaacactt gttgtaactt tgatgaatga gagtcttgag agacacaact caaagttcaa 300
 ctctctccc ttttcttcc ttcaatttcg tgctcccccc tctctctatc tccccctctt 360
 tcttttctc cattgaagca tctctccaa ggc 393

<210> 20381
 <211> 444
 <212> DNA
 <213> Glycine max
 <400> 20381

gcttcttoga agggcatggt tatttccagt ttgttgaaaa tatctaagat tctcgcctta 60

tgacgcttct tctccttctt ggaaggtacc acgggatatg gtacttccga accttcattc 120
 acagcttttt ctcttttctt ctctctagct tattcacttc tactcctctc ttcattctta 180
 tttttttcat atttttcatt ttctttttct ttttcttggc catttaattc ttttttcttc 240
 actattattt gtttttcttt ttcttgattg ctttcacctc tcacatcatc tttcttttca 300
 tcagtacatt tcttttcagc agctttcttc ttggatacaa cactatactc atcctacgcc 360
 tccataaacc tcttattcct tgtcatcaca gctttgcatt cctccttggg attcttttct 420
 atattcacca caaaactatt ggat 444

<210> 20382
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 20382
 agctttattg ttttatatct ctttgatgca acatatataa tacttttctt ttttttatga 60
 atgttaaaca attattattt tttatgctgc tagtgatttt ggagcacaaa ttgtgcccc 120
 aaaaagaatt ttgaagatgc ttccaaaact ctttgatcat caagatcaaa atgttcgtgc 180
 atcctctaaa gggttgactc ttgaactttg ccgttggatt ggtaaagata gtgtaaaatc 240
 aattgtgttt gagacaatga gagacacaat ggtaagctaa actagttgtc tatttttgtt 300
 gttgatttga tttgttatgt tctcctccat atccaaatct tagagtacct ttcttcccat 360
 ttctgtatag aaaagagcta aa 382

<210> 20383
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20383

ggctcagaga aggagtccac ggaggaaatg cttaccacct tatatgtctg gaaagcggnt 60
 tctaataact cctctgcgga ctctacataa ggcatagagg atggacaact caccaagatg 120
 tcttctctgc ctgacacgat gaccagatgc ccttccacta cgaatttcaa ctttttggtgg 180
 agtgtagagg gaacaactcc cactgagtgg atccacggac gtccaacag acagttgtag 240

ggggggttaa tatccattat ttggaaagtg acttgacagg tgtgagggcc tatctgtact 300
 gcgagatcga tctctcccct aacctctagg cgggtgccgt cgaaggcacg aaccaccatt 360
 gaactcggct ctaagtggga agcattgaat ggtagtttct ccaaagtgct cttaggcatc 420
 acgtttaaac tggaaccatt at 442

<210> 20384
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 20384

ttatctttta tccaaatgga cttaccttga attaatcct ttgatagccc ctttgagcct 60
 atgttcccct ttctttgttt tgaagctcat tataagcctt aagtgaaaaa ccatgatatc 120
 accttaccct taagtaattt tggagctttg gaattgtttt aagctgggaa taagtgtggg 180
 gggatatgtt cattgcaaga tatgattcct ggccatgctt gatgtatctg tatattgcct 240
 atttcttgct ttaatcttca aattcgatct tcaaaaaaaaa aattaattgc tgcaaattcg 300
 tactattcat aaaaaaaaaa aaagaaaaga agtgaagttg aataaatgtg gtcttgttat 360
 gaagacttga tttgggagcc ttga 384

<210> 20385
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 20385

tgcttgtgga gcttctatgg aggctggatc ttttagcttc aatgaggtcc ttcaatggtg 60
 atttttcacc atggagatgc agcgaaaggc aaaggagaag aggatagggg aggcaccatc 120
 cactagggaa taagccaagg aagaaggagc ttcaccacca agaattgcct tggataagaa 180
 gcttgaagag gatgctttta tgaaggaaaa gaaagagaga agggggggagc acgaaattga 240
 aggaataaaa gaaggaaaga agtggaaactt tgaagtgtat ctcataagac tttcattcat 300
 caaagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct tccatgagaa 360
 gctctcttaa gaaaacttcc ttgagaagtt tctttgagaa aacttccttg agaagctaga 420
 gtttagctac acacaccca 439

<210> 20386
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 20386

tttgccttta tcttggcaca acaccatggt gaacaaatga tcattcatca ctaatacaaa 60
 ataaaaagaa aaaaataatc taacggcatg cttagagtta gaagtacgaa ttttacccaa 120
 ttgttttttt cacacaagtt gatgatttca ccaaagcaac ggaaaataac caaaaacata 180
 aatggatttg tttcgaatgc acatataatt tacactagca ttcaaaacaa ctagttcaaa 240
 agtcattttg acagagaaaa gaaaataaaa ttacactaac actgcatcaa aattaaacca 300
 taaataaagg cttaactact gtgtagtccc tggatctagg gaccctatct tttttaatcc 360
 ctaaa 365

<210> 20387
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20387

tcacaaaagt ttatatggct tgaaacaagc accgttgctg tgatacaaaa tgncaatga 60
 gtttatgagc aactcaggat tcaaaagatg tgacatggac cattgctgct atgttaagaa 120
 atatactaat agttatgtta tcattgtcgt gtatgttgat gacatgttga ttgcaggatc 180
 tagtatgaca gatattaaca agttgaagta gcagtgggca gaaaactttg aaatgaagga 240
 tcttgggtcca gctaaacaaa tccttgggtat gagaattctt agaaacagat cagaatgaat 300
 cttaaagcta tctcaagaga aatatataca canattgctt gacagggtct accttggaga 360
 ttctaagacc aggaataccc ctttggggtc tcatttgaag ttttcaaaga agcaatcttt 420
 gcagacagat gaagaaa 437

<210> 20388
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 20388

ttagcttttt tattagacct cgatcgggtcg tccttactgg ccgacgccga ctgtcatttt 60
 tttcgatcaa tatcgggtgaa taatatTTTT tttgccgaag tgggctaatag ttttcctggc 120
 cgaataaatc ggaacatgcc agtttcgggc aaaacgaaac atcgggttgag ctcacacgaa 180
 aaaacctagc cgacctacat tgtaagtttt ttatgcaaca ccgaaacaag aaaacttccc 240
 ctgccgtaag aaaaaacatt atcggccagc gagcgttttt tttttaaaaa aaaattgcgc 300
 aatgtcggct gaaaaatatc agtcggggcc atttcacgac cgatgtcggc tattgagttt 360
 tctattcaat ccctgaatga aatttgaat 389

<210> 20389
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 20389
 ttcactcgga tgtccgatgc acgcgcatca tatatcgagt tgtctcgaaa ttgaacaacg 60
 gaagctctcg agaaattgaa atgatcataa cttttcactc agatgtccga ttcagacgca 120
 taatatatcg agacgctcga aattgaacta cggaagctct cgagaaattt aaatgattat 180
 gaattctcac tcggatgtcc aattgaggaa catcagatat cgagacgctc gaaattgaac 240
 aacggaacct ctcatgaaat tcagatggtc ataacttttc acacggagat ccgattcaag 300
 cacatcacat atggagacgt tcgatattga accacggaag atctcgagaa attcaaatgg 360
 tcataacttt tcaactcgat gtccgattca cgcgcatgat atatcgagac gctcaaaatt 420
 gtacaacgga agctct 436

<210> 20390
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 20390
 tcacctatgt acaatgtaga cactgataat atggttaaat aaatgattac gttttttaat 60
 ttattatttt tgatcgattt aatcttttat tattttcaat ctaattcgat cctctaatta 120
 aaaaaaaaaag atattctcat cctccatgtt gataatttgt ccataaagaa taattagaag 180
 acttcgaact aaaataataa atgtgagggg gaaaaataat gtaacctttg atttcgtgtg 240

actggggtaa aaaataaaga ctatataaac taccgctgc atcaattccc tccgctctga 300
 taataaagcc actcgccgct ctctgtaccc tctctctct atcttagcgt atgtcttatt 360
 acaacttatac 370

<210> 20391
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 20391

ttaatgttgt gactaacaag gtgcataaca gagaatggga tttggtaaag tttacacaca 60
 acatatatgt atcttctatt ttaatttcag aaataacctt tgattgtgga gcagttatac 120
 ttggctaatac aagagaaatt ccacaaagt gctgacaaaa attactggaa agctattggg 180
 gagatcattc ctcgagaggt tcccaacatt gagaagaaaa gaagcaaagt ggatcacgag 240
 aataagccat caatcacagt cgtccaaggc ccatagcctg gctaaccac agatctttct 300
 aggatgaggc agatattgtt gaagctgaaa catacaccac cagctcacat gattccccct 360
 cctactgcac ctgctaaaga cgccatagat gggaacgatg gaaaagacgg aatagaaaca 420
 gcatctaaag ccaatgga 438

<210> 20392
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 20392

tagcttgcag caaattcaaa cagcaataac tattttctcg gattttggat tgagtctcgt 60
 catatatcga gacgctcgaa attaaaaatg gtagaccga tcaaattcaa acgacaatga 120
 ctatttacac tgatgtctga ttgagtccta tcatatattg agatgcgcaa aattaaaaat 180
 ggaagctccc tgcatttca tacgacaata actttttata cttggatctg cgattgagta 240
 ccttaataata tcgagaggct cgaaatttgt aatcgaaagc tccgatcaaa ttcaacaac 300
 gataagtatt gactcggatg tgcgattg 328

<210> 20393
 <211> 431

<212> DNA
 <213> Glycine max

<400> 20393

tatgaagaag tgggtgtgat acattgtgtg atcaaacgga tatggatttg actttcacia 60
 gcaccactac tagaaaatgt agatttaaca ttgtcaagtt aacattgggtt ttgataaaa 120
 ccgatgttaa cataaacact atgacataat tgtaaataat gtgtatactt taacatcggt 180
 tttgttttgg aaaaccaatg ttaacgtatg ataagttaac atcagtttct tccagaaaac 240
 caatgttaac gttaacatca tctgggttaac atcacttttc tttttattgg aaaccaatgt 300
 tgaacctaca tttagaaata ttagaacgca agccttattt tccttgtttt ctcttcttct 360
 ccgtctaagc tttgtctttg tgagtctatc cctctctaca accttatcgc cattgtgaca 420
 cctcgccact a 431

<210> 20394
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20394

agcttttagt tgcttggaca acaacttatt ttgggccaac aaggcatctt gagatgaaag 60
 ctctaataaa ctcttttttg taggaatatg aactctatca tgcaaaattg catggtcact 120
 ggcaaccata ttttcaatta agtccatggc ttcttcaagt gtcttcacgg ccataaccba 180
 ttaatgaaga tgttcaacta tataggctct gaaaaagcta cagtgggagt tttctgtagc 240
 aagctataga atctttctta tgctcactc aaagattcat cgagaaactg atggaatgaa 300
 gaaactacaa cttttccctc tacaatttta gactctggga gatattntc tagacacttc 360
 tcaacaactt catact 376

<210> 20395
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20395

taagggaaga agatgaacca attcaaaatc agttctgcat atttctagtt gggtaaac 60

tttggctcgt tgaggtagta ttcaatttca taaaatggtg tatctagagc attttgggtg 120
 ggtcacacgt ttgttgactc gctgggctaa atgttctgtc tgggatgtga ttttggctgg 180
 ctaggcttta atctagttgt ttatatgatg attatttaaa ttttccttaa actcttcctt 240
 tctttttttt tatgattcaa atgactttaa aatatttttg caaatatatt atacttattt 300
 gtatgatgat tatgtcattc ttgacctgtt tatattatgt taatgtgatt gcattgttga 360
 agtgatgata taggtatatg ttntacttat tgtagtgaga aataccctta acgttctatt 420
 gatg 424

<210> 20396
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 20396
 agcttgcaaa ttcgtgttcc agccagactt atttcatgtt ccatatcaac aaggcaggat 60
 gactcttaaa agttaaaaca gaactataca cacgcattgg cctagtttca aatcaaactt 120
 ctctggcaca atagaaaaaa gttaagatgc ataaattaat ttttaatttac aagtttgatt 180
 tattttaact tctaattttc tttttttttt tctggttaagt gtttattgag aactttatag 240
 taacttgact gcagtcatag atatacaaag agaccctatc catataatac tcatttcaat 300
 agcattcaaa ttttgacata aggaaattca aaagggatg aaaactcact aagtgttaaa 360
 gaagaaaatg cttcctccat ccttagtagc a 391

<210> 20397
 <211> 275
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20397

ctgtaactca gtgttaagta ttgtttcttt caatgtatga tttgtcacac acatgggttg 60
 canacgccac aaccancatc taaactacaa taggttgatt caacattgtt aacttaacat 120
 tgcatcttga taaccaccca gtaaacatta acactatgac gtaaattgga caaatgtgca 180
 tactttaaca tcttctttgt tttggacaac caatgctaac gcatgataag ttaacatcag 240

tttttacaga aaccaatgt tagcgccaac atcat 275

<210> 20398
<211> 389
<212> DNA
<213> Glycine max

<400> 20398

agcttatgct tttctttata ttgtcacaca gatttcatat tcttaatggc tgctgttttt 60
tcagacactt cctatTTTTt ttgatggcct tgttactgca tggggcgcta tcctaatttc 120
tgtgacatta attcttttgt ttggtgaggt gagaaagttc tgtccttata tgattttaag 180
tataatacat tcatgtcaca gattaagtgc ttgtgttgat tgtttagagg ttggaacctg 240
gaacaaaaat ctggtggcac agcacccgtt ttgtttggtt cacgtttttt ccatttgtga 300
aagacatttt ttgttaatta gaatcaattc cagttgaagt gggaaccact agcttctcat 360
tcctctaatag ttatgttttg caataaaaa 389

<210> 20399
<211> 444
<212> DNA
<213> Glycine max

<400> 20399

tcccatctt cccagcacca accaccaaca ctccagaatc tgcaaatgag gaatccgta 60
gcttcatcag tgcaagctcc acagcagccg agcttacaga aactgatcca gatgaaatgt 120
tagtctcggt tctaaccgc ttcccaaccg atatcgctg cttgaacaaa cactgattt 180
tcttatcaaa accaggcact cctgtccag ctttcacaac ctgcttcacc tgagcaagaa 240
tttgaccttc cccaagaaca agtgagtcaa gccctgacgc cacttcaaata agatgctgcy 300
cggcgtagcg gttatacagc aaaacttggt gctcccgaag ctcaggtatt gaaatccact 360
cacctaaaca aaaaacacaa ccatgagttt tcctttccaa acaaaaacaa gaacttagca 420
tgggtaaatc acctatttcg tcca 444

<210> 20400
<211> 389
<212> DNA
<213> Glycine max

<400> 20400

agcttttatag cctttgcctt ttctatttga gatgcgaggt ggaataccat caacgagctt 60
ccaatatatg acttaatgtg gttggattct atacataaca gaagatctca ttcgagttga 120
ccctgctcat agctgagatc catgtctcat caagattgag ctttctgcga tagatgattc 180
cactctttac tgcataattaa gaaccttcat ctctttgaga cacacttcaa aacagaatga 240
tattctctag gaactcttgc taggcacatt agataaagat catctggaag gccacagata 300
actagggaaat tagtggcttc tatctcattg acactatctg atgatacttt tgcatgatct 360
aaatgctcca ttgtataatt cagatgacc 389

<210> 20401

<211> 416

<212> DNA

<213> Glycine max

<400> 20401

tgtcaaattg aaggatagga taccctatgc tttctggaat ttcaacccaa cagtgtctat 60
tattaggaga gaactctgca agtgcaacac cacagaaaaa catgattgga atgcaagaat 120
atatgacata gtaaataatat aatctaaaaa tttacttttg ttataggtta atgcattaat 180
tatctcaaga ttaaattaac acatTTTTTt tctctctctt ttcaacaatg gttgcgagag 240
agagcaagta attttgagaa ctcaaaactt gaaaatgaat gtacctttag gtaaagtttt 300
gaagcatatt atatgattgt gattttttta aataattatt atagaagggg ttagtttact 360
tttttgaatc tgtcacatat aaactTTTTt agattgtact tactaaattt tgaaac 416

<210> 20402

<211> 392

<212> DNA

<213> Glycine max

<400> 20402

agcttgacag gttcatgtgc aggtgcaggt gctgctgcta gtggaggcac ttcaatttgc 60
ttgccagacc tcatggtgat ggcaactcaca tttttcgaat ttttcacagt ctgtgaaggc 120
aatttgtcag aatttttagga ctgagcttgg ttcaactgag tagccatctg cccatttga 180
tttatcagac tctgaatgga ggctcttgtc tcttgctaaa attgcatatt ctggatgggt 240

atttgcctca ctagctcttc taaggaaggt tgcgaagggg ccttagttgc ttgttgtctt 300
 tgttgttgtt gttgttgttg ctgcattgga ggaggaacat atggcttgct tggaccaaca 360
 ccattctgga aagcatggca tgctgttgtt gt 392

<210> 20403
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20403

tctncccaaa ttntctataa atagggggag aagtgaagtg aaaaatgatt cagcccctta 60
 ggcacttctc tctctttcga atttgcttgg aaaaattgtt tccgtgaaga aaatccaagc 120
 cgaggtgctt ccgaaacgtt tccgtaacgt ttccgtgagg aatttcgtga aggtttcgac 180
 cgttcttcga cgttcttcat tcgttcttca tcgttcttcg atcttcaacg ggtaagtacc 240
 tcgaaccaag cttttcgatt cattctatgt acctgtggtg gtctacattg tgtttcgtgt 300
 atttttatct tcgtttcatt tactttctat accccctttt gacgtgctta agccatttta 360
 ttttaagtcatt ttctcgctta aactaaaaat aaaataaatt tccaccgatc gtttgaattg 420
 tattatccgt taac 434

<210> 20404
 <211> 394
 <212> DNA
 <213> Glycine max
 <400> 20404

agcttcttct tatttagctt caaccatgta ttttggacat agtcaacaaa tattttataa 60
 catgtccacc aatttgtaaa tcttttcaat aattcattat acgattcctt atccagagat 120
 tgcaacaaca gttccaagc atccatgaca tcttgccact cttcaacctt attcatatgg 180
 attttgcatt ttgtgttgac attctttgta atatggaata gacataacaa gttggttgaa 240
 gaagtaaaaa tagtctccaa tgcattcatg aaagtaagat ccctaacatt gacaataacc 300
 tgagacaaca catcatcttt cacagacaat cctttcacct tacttaaagc ccattaaaaa 360
 attatccggt gtctcataac ttaaataagc aaag 394

<210> 20405
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 20405

tgcttgtgga gcttctatgg aggctggatc tttgagcttc aatgggggtcc tttaatggtg 60
 attctccacc atggagatgc agcggagac aaaggaaaag aggtgagagg aggcgccatc 120
 cattaaggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
 gcttggagg atgcttcaat ggaggaaaat aaagaggag agaaagagag aggggggagc 240
 acgaaattga aggaataaaa gagggagaga agtggaaactt tgaattatgt ctacaagac 300
 tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct 360
 tccttgagaa gctttcttga gaaaacttcc ttgagaagct tctttgagaa aacttccttg 420
 agaagctaga gcttagctac aca 443

<210> 20406
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 20406

ttgcttttat aggtgaaatc aggtgcagcc atttccctta tagtcctctc acgaggtgga 60
 ggttgtgcc tgttctcaga atgcgcaaaa tcagaatgct cagaattata atgctcaaga 120
 tcaggatggt caaatcacc aataacagaa tgcacagatt caccagttat ggaatgctca 180
 gaatgatcaa aaaggtataa aatgatgcct aaataatcta tgtaatgtcc tatctatctc 240
 aggatcaaag ggttgtaagt cagatggatt gcctctagtc atacactaca ttcagcatgc 300
 acacaactag ttgccttgtc atgtaaataa aggtgtaggt ttgaactaca gctaccctca 360
 aatgatatct aaatgacttg aaatt 385

<210> 20407
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20407

ngaaggacat gcacaaagtg tgactatatg atgtggtaat atggtgtagc aagcaaagtc 60
 tcacctcccc ctctaaaatt taattggatt gagcttctcc caattcaatt aaattttattt 120
 tccaacacac acatcaaata ttaacttaat gcatatgaaa ttacaaaact acccctaatac 180
 taaaaactag tctaggtgcc ccaaaataca agggctgaaa aatcatacat ttgtagggta 240
 ccctacctac gttatggagc cctaaataaa aggcccaaaa ataatgaaac cttaatctaa 300
 tatgtactaa aataagtggg ctcacactta gcccatgggc ctaaaatcta tccctaagggtt 360
 catgagaacc ctanggtctt ctcttgcac tctagcccaa tctacttgga gtcttctatc 420
 caatgccctt gc 432

<210> 20408
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 20408
 agctttttgt acaagcaatc aactcaaagt actgaaattt aaataattga aatttaaaga 60
 actgaaacat aaaaactaaa atttaaata ctgaacataa atcataaaat aacttaaata 120
 aactaaaatg ttcaaaatgc acaaatttaa atgtcctgct cctgtgattg ctcttgtgca 180
 tgctcattga gatccaacaa ttgagcagct ggtgaattct gagggatatg ttgctctagc 240
 tcagatgctg gtgaagatgg catggattca tcaggtatgg gtactgggga tggctttcga 300
 atttggctcg tggaagtctc atccttctga gccatctgta cacctgaatc aaaataaaaag 360
 ggctcaagag gagtgagctc a 381

<210> 20409
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20409

ntgagggaaac ccgccattnt tcataataga aactggtaa tgtgtctact atcattgtta 60
 tcattttcttt ctccgtcttt gagggaaacca cttgggctgc cagatctctc cacctttggg 120
 tgtattcttt gaaagattca tgcccccttt ttgcacatgt tctatagttg catcctatcc 180
 ggagccatat cagaattgta ctaatactgc ctaacgaagg caaccattag gtcctttcaa 240

gaatggactc gggaagggtc caagtttagtg taccaggtaa caactacgct agtaagactt 300
 ttttggaaga aatgtatcag tagttcctca tcttttgcgt atgcccccat cttctgacaa 360
 tacatcttta gatggttctt gcggaagta gtcccccttt actctctggt aatcgattac 420
 catattgttg tcatcgat 438

<210> 20410
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 20410

agcttcttgc gtagccgctc ttggcgctca gaaaatccca aaaacaaatc cctcttatta 60
 ctagctatctt tgaattcttt agttcctgaa tgtacaacct tcaaattggt gcgcgttccc 120
 ctctatgaga atgaggagga tcttcatagg acttcatcca gctgatgttt gtcgtcagtt 180
 tcatcatcca ccaccctttt ctccgtgcc ttctcacggt cattgttgat aaacccatat 240
 ttatgccttc ttcccttcat gtcttggtat atcacaactt tagctgaatc tcccatcttc 300
 aacatagttg aatctcctgt cttattctcc aatgacacac tttgatggcc tgtatctctt 360
 ttcttcgtat gttctactgc ttcagc 386

<210> 20411
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 20411

tcggaagata gtgatgaggt acaagcccta aatgcagagc ttgaaagagc ccgagtagtc 60
 gaagagaagt tcaagtccat agccatcaaa gtctgaaaag agtatgatga actaagggac 120
 gtcaatatgg ccaccgctga tgccttggaa cgagaaacca agaaggcca aaaggaagaa 180
 caccgacaaa gcaaagtctt gaggggcttt atagggcagc aatagtgagc tcaagctccg 240
 aagaggtgaa aggaatcatc acgggtcaaa ggcgatgatct tgaaggacga gctaaagggt 300
 tgccttaagt cgaaaagaaa tttgtcccaa cagttaagcg agactgaagg gaatatgtgg 360
 gccatcatcg ataagtgcaa agagaagcta aatctagcgg cgactcacga gcataggcta 420
 gaggatgagt acgccaag 438

<210> 20412
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 20412

cgctttcaaa acatacatct gggttcagcta ctggttgcaat tgcttggtata tttgtcatac 60
 tacgtaacca tatggatgca cggacatttg gagcgggtga acccaataga ggcaactgcag 120
 cactgcttga ggacacaatg gatttgattg tacgcattga tttgcttatt tatatcaaac 180
 caacggcaca tgggacatgt ctcatgaaat taagtggctc aaaggctaag gaagcttcac 240
 aaaaaagggt ggagacctag aagatcaata tgattatgta atggggatgc tgaagaatat 300
 ggccttgtaa gatgctctac ttcattcgta tcttcttggt actcaciaaac gtgtgtgcta 360
 catg 364

<210> 20413
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20413

catcaatggt gtggaactca cctacgccca tgggtccgac accagtagga ctggaagccg 60
 ggacggagaa acatctcaaa cttacacctg tgatgactca gcactcttgg gcaggtgaac 120
 gatagtcttg tcatgcacgc agaaaatgag aagttangcc catcattact atgcaaaagc 180
 gtggatcggt ggtggttgaa ctctaacttg agcaagtcac cagcagggag atccgctttg 240
 ctattcaatg ccacactaca tgtgagagta tcatcataga gctagttatg agccgctgag 300
 acaccctcta tatcttgc 318

<210> 20414
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20414

tggagccnct gannctgagc ttgatgcac gatatctggg cgaatcagct cggacccggg 60

atcctctaag tcgacctgct gcatgttgct ttttaaaaga acgcaaagca aaaactgaat 120
 caacacgcac aggaagttca gaatcctgca ttctggatac aacacactgc aaagccctcc 180
 ggaagttggt ctgggtctgag aagttaatat gggcatattg tcctgcaacc catgctgcct 240
 gnttttcaca ggaaaattaa agtgtagtct aaataataat tccatcgcat ggttatattg 300
 tatttttagaa ggagactgga ataataataa aaaaattgca gcatgcagtt ctttgatctc 360
 tctgtttttc tccctctcta tctccctgt tatgtcttcc cctctttatc tttctgtctt 420
 tcagtatctc tctcttcccc acctaaatcc tatatcacat ggggattaat 470

<210> 20415
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20415

tagcaaagaa aaagcaattg anaaagtga actctgtctt gtttatcgct tggaagttaa 60
 tttttcaa at aattgatata aaagtcaatg atagtatcat taaggcattt ctcacgtgt 120
 aaaagctcaa tatcgctctt tttgatacaa acagcatcag ggtccccctt tggatacgcc 180
 tttttaaatg cagcagaatc atgtccact atctggtctc ccaagttaat ttcattcttct 240
 gagggattga agttgaagta gaaatcaaag aaaatgtag acttgatttt tttttttttt 300
 tatgagggaa gaaagaaata aaatataagt aactactgtc taacataagt aacactgcac 360
 ctaaagaatc ttgaatctag acatottggt ataaaattac ttttaataa gataatatga 420
 atgctatttt ttt 433

<210> 20416
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 20416

tatgcttgta cgaatgttaa aaacatcttc ttcaaccatg atgatcctcg actacatctc 60
 attgaatcac atgtacactt gtagctacaa cgtatcaaac ctttcaccaa caaaggctctg 120
 aagaccatag aacatgtcca aaatcttttg aagaagagag gaatcttctc caccatgtag 180

atgctcatct tcataaatgg gttgagcacc ctatttgatg gaagcttgct tgtggagctt 240
 ctatggaggc tggatctttg agctacaatg agatccttta atggcgattt tccaccatgg 300
 agatgcagcg gaagacaaat gacaagaggt aaaaggcggt gccatccact aaggaatata 360
 ccatggaag 369

<210> 20417
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20417

tatgctgcan atatttacia tagacctcct caacctcagc tgcaaaatca accacagtag 60
 aacaattatg acctctccag caacagatac aaccttggat ggaggaatca ccctatcctc 120
 agatggtcca gcccttagca acaacaacag cagcctgctc cttccttcca aaatgctgct 180
 ggccaagca gaccatacat tcttccacta atccaacaac agcaacaacc ccagaaacag 240
 ccaacagttg agggccctcc acaaccttcc cttgaagaac ttgtgaggca aatgactatg 300
 cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagata 360
 ggaccattgg ctaccaatt gaatcaacia caatacctga attctgacia gctgccttct 420
 caagctgtcc aa 432

<210> 20418
 <211> 380
 <212> DNA
 <213> Glycine max
 <400> 20418

agcttatgtt cttggagagc attcatccat agaataacct tcatttggtt tactcattca 60
 ttctttcccc atacttgccc tttttcttag gcacttagct ttcatacttg aaattatagc 120
 atacacactt attaaactga tttatactta caactttttt ttttaacaca gagaaccgaa 180
 acagtgtgta tatactatct tctttgacca tttcaatcct taccagtgct cttccccaaa 240
 tgtggaacaa atttaccttg ataataactc ctccaaattt gccttgaacc atcttctgtg 300
 gatgatgctc tctacaacc tataataagg tagcagaaga tgcaattgaa tacgctcgag 360
 gttcaatcaa tcaatcagtt 380

<210> 20419
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20419

taaagtatgc ccgagtcatt catccctatg atatgttggt gaagtattgg cgatcggaat 60
 tgccattcct tggattatag ggttgaacca agctcatgct tttacaaaaa ggttcatcaa 120
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180
 acatcaatgc ttcgtctact tccaaacata tttaggatta ttgatgtcct tgttacttcc 240
 agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300
 tatcctgcgt aaatattcgc aatacttcga ctgtacatca ttcgcatgca tccatgcttt 360
 tcattgggtg cattgctcat tgcattcttt ccttgaaaaa taaaatanaa taaaatacaa 420
 tgaacttatc a 431

<210> 20420
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 20420

agcttgccac ccagctcgcc caggcgagct cagctcgccc aggcgagcag ggttgcttcc 60
 tccagaagca acagccttct ggaggaatct tctggagggc ccaagtgggc ttggttgcta 120
 tttgcatccc catttttact aagtacaccc ccctgccttt tttggtgatt cttttttcgt 180
 aaagttacgg aaacttacga atttcgtaat gatacttggt ttctttccgt aatgttacgg 240
 aaccttgagg attacataat catccctttt ttgacttac ggaatgttac gggacctcac 300
 taattgtgca acgatgcttc catttgattt ccggtgtgtc acggaacctt acggattgtg 360
 catcaatatt ttcttttggt ttccggcatg t 391

<210> 20421
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20421

tctcanaata tttatatttatt atctttgcga attcttggtg cttagttatc agcaacaata 60
aatttttaaaa aaaaaaactc tagatttctca agtcataggc atttacaaca acgatcacat 120
tagagagggtt gaataatata ttaataaaaa ataataactt tttgcaaata aaagttttat 180
cacagggttta gaaatatata tggttttgag tcacttactc atcagtaaaa taagtttaat 240
aaaacatagt ttgatcatcc aatatatcta tgaagtaata tttccaaaaa aggtttttta 300
gaaaacactt ggtcagaaaa aaaggtaaca aagaaaaacta agataatact taataaaatg 360
gtttaataga gatataattag catttgattt gtactagttc acttaaataa aactaccttc 420
aattcttctt tacacaacta 440

<210> 20422
<211> 390
<212> DNA
<213> Glycine max

<400> 20422
agcttctaga ttagtgtact aaacaaccgc ggctccggcc aagctatctt ggaaaaagtg 60
tattaatagt ttctcatccc tagagtgcgc gccatcttg cgacaataca tcttgagatg 120
gttcttgagg caagtcgtcc ctttatactt gtcgaagtcc ggcaccttga attttggggg 180
gataacaaca tctgatacca agcaaagatc cgcgaatgga tattcaccaa agccttcaac 240
agccctcaat ctctcctcga ggagatcgag tttccatctt tcttcgatcg tcgggggtgg 300
tccttctgtg gacaagatta ttggttgtgc tgtgaagttg ggatgatgca aagtgttgcg 360
tgccggcccc tcgacgagga tcggtgggta 390

<210> 20423
<211> 444
<212> DNA
<213> Glycine max

<400> 20423
tgtgatggtt atgttctttg gccatgtgat tgtgatacat ataacatttc aaaggctttt 60
tcattttttg ggtcgtttta tctcatcagt gccctttcta ggaaaaggaa aaatcgtcaa 120
aatgaaaatg agttggtgaa ggagatcaat accatcacaa ttacacaata cctaacatga 180

cccaacaagt atttctaaaa tctaagtgat acactgatac ttcttgtag cgtgtaagtg 240
 tgtaactacg aagacattta gaaaacgtgt catcaagctg tgaaaatatg aggtgcgacc 300
 cagtactggc tagcagcaaa agacgtttca ttatccctgc gagcaaagag aggtctcttg 360
 cagctttttc cagcgcaatt gatgcttaat aaaatctgtt ttatcttttt tttttcttct 420
 agaatataga taattatggt taaa 444

<210> 20424
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20424

agcttgcattg atttacatct ccccttttct caagcaaatt cttcttgata tcatcaaaat 60
 cttcatgatt tacaggtgtc ttgcgggcac gacccctgca aacaataaat gacatcaaaa 120
 atcagttgag agaagggcat acttacctat gtcataatgg cgtgaccttg ctgggggggaa 180
 cgggcacccat gtaggactaa cagaggcccg taaccagagc tgggaaccct agggccctgt 240
 tggacttctc tgggtccact aggtgtcttg tgggcgtgat ccctacaaat agtggatggc 300
 atcagaaatc agttaagcca cgtgcatact tacctatgtc acgatgacat gaccttgctg 360
 gggggacggg catcctgtan gactgacaga ggcccc 396

<210> 20425
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20425

tgaagganaa ctggatgcgt tggtaactt ggtaacctag ctggccttga atcagaaatc 60
 tgtacctgtc gcaaggggtt gtggtctgtg ctctctgtct gaccaccata tagaccttg 120
 cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatattta 180
 caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240
 cagcaacaga tacaacctg gatggaggaa tcaccctaac ctcatatggt ccagccctca 300
 gcaacaacaa cagcagcctg ctcttctctt ccaaaatgct gctggcccaa gcagaccata 360

cattcctcca ccaatccaac aacaacaaca accccagaaa caaccaacag ttgaggcccc 420
tccacaacct tccctcgaag aacttg 446

<210> 20426
<211> 377
<212> DNA
<213> Glycine max

<400> 20426

agcttattcc acttttgtac caagactgca gggagctgac accgtcgcaa tgcattgataa 60
gaaggaactt tgactaaggt taacacgcta aaacttaaaa aactaaaaaa tgaaagacaa 120
aatgataaat ttactcttcc attttatctc caatatctaa ttaggtcatc attaatataa 180
ttcacaaaat tgggtctttca ataatttaaat tcacaaattt gatcccttat cttataaaat 240
cgagcaatga tgggtctttca catcacaacg atgactcgga acatgtgacc gttgacatca 300
cctgttaacg gtcaacgtgt aattgtgatc tataaaatat ctaatagcgt acgattgtat 360
agaataaggg gaccaa 377

<210> 20427
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20427

tgtcggcang nactgtgatg acgaaggaca ngatattgta accattatgc tcgaagaagt 60
accacaatgc ggtggcataa acgagcaccg ggaccgctcc acgccaattc attcacaaca 120
ccacatcaac aactaagcct ttgccgagaa cacgatgaaa ggatgagaaa ctaaggcgat 180
gccaagattg tcagaagaat gaagaatgaa ggggtgataa tgatcaatga cagccatgtg 240
catgagagaa aaaaaaagag agccaaccag acatccgaaa agtccccata taaaacgatg 300
cataagggga tgacttatcc agttatataa gaacttaatc atcgatgata tccatggccg 360
tgagagacaa aaaagaatca ac 382

<210> 20428
<211> 384
<212> DNA

<213> Glycine max

<400> 20428

ttagcttgag tttaatgcat atttatataa agatataatt aaagtttatt agatttaaag 60
acttgtttga aaaaaaataa cttcgataat tttttgaata agttcttatt atataaaagc 120
tcattataaa agtaattaaa attcaactag taacctatTT gtgtttggat atacatatat 180
gttgataaga attggatata tacgtgttga taagagctta cataatTTtg aagtgtttgc 240
atgcaatgtc aagtgaactt ataaaagggtt atctcatttt aaaaattaaa aaaaaagtga 300
accatgcata aaagtaaata agaaattaaa aactaactaa acatttaata tactaacatc 360
atatgtatta caaaaaatat tcag 384

<210> 20429

<211> 429

<212> DNA

<213> Glycine max

<400> 20429

tataagaaca aaattgcctc aatcatttcc aaatatacat gtgaattagg aagcatcgac 60
aagaatcaag ccaagactat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120
tgatgatgga tgggtcaaat tctcaciaag gttaaactcat cactttcaaa ttgagctttc 180
aaaactatca tgacatgtag aggagaatca aggatttcaa gtcacaagat atcaagaaat 240
tttattttca aaacaattac ccattttcttg aacatatcct ataattcaaa gaaaaacatg 300
caaagtcgta catgcacaca aaattgaccc aaaatattaa actaaaaatc cgacgaaact 360
aacaaattaa caaattaaca caactaacia attaacaaaa ccaacaaaac tagcaaaacc 420
aaagaacac 429

<210> 20430

<211> 382

<212> DNA

<213> Glycine max

<400> 20430

tagctttcttc ccagttttc tataaatagg gggagaagtg aagtagaaaa ggggttcagc 60
cccttaacgca cttctctctc tttcgaattt gcttacaaaa attgtttcca tgaagaaaat 120

ccaagccgag gcgcttccat aacgtttccg tatgtgattt cgcgaaatggt ttcgaccggt 180
 cttcgacggt cttcattegt tcttcacgtt tcttcagttt tcaacgggta agtacctcac 240
 accaagcttt ttaattcatt ctatgtaccc gtgggttgcc acatttgggg tcatgtattt 300
 ttattctcga tttcattttac tttttatacc cccttttgac gtgcttaagc catttattta 360
 agtcattttct cgcttaattct aa 382

<210> 20431
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20431

tcagcccaag cctcttgaaa tgcttgcatg gcattttcaat gtatatacag atgcttctat 60
 tacagtacca acttggcaac ttccacaaaa aataataagt ataataaaaa aatacaatac 120
 caagtaccaa ctttaagataa caattttaatt agaattattt actgtcattc aattacaagt 180
 tgctatgtgt agtaaattta tcattttttt attcaaattt atcaattttt atcataatta 240
 ctataaaagt tatattttatg atgattttcta attgattgat attataaatt ttttaacact 300
 taaatgtgtg tgcatataat gtattgaatt taaaaacata atttatttgc atattttaata 360
 gcttcacaat taaaatacgt tntctatacg ttaaaaagat actatattaa atactagggtg 420
 gtgctgagat cactg 435

<210> 20432
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 20432

agcttgtgga aataacttaca cgactgagaa aaagtgtttc tatgacgggt attttaagca 60
 ttctacgacg atttttgacc gtcacgttat cgaacgttgt gaattgtccc ttcattttta 120
 agacgggtcc aaaaagaatc atcttagaaa agctatcatt ctatgacgat ttttaggcta 180
 attatcatct tacaatggta tttttctaag atgggttttca acaatgtgtt taaaaaaaaa 240
 caaataaaaa gatgagaatt ctaagacggt ttttccacaa tcgtcttaaa aaatagactt 300
 totaagacaa ttttctaaaa aatcatctta gaatgtacac tttttaatat gatttttcaa 360

ataaccatct tagaatatct tttaa

385

<210> 20433
<211> 430
<212> DNA
<213> Glycine max

<400> 20433

tgtaacgtgg tcagggttaac aagaaaatca tgggtttttca tagattcaaa cacttagggt 60
ctaggagagc attcaccocat tccatgtcta cttaaagaac cactttttct ttgacctccc 120
aacctttatt gacatgccac aaataacaga acatagaggt tttttttttt tggatatgcat 180
ttgctttcag ctcatatttc cttttttttt tacgatgata ggtattacaa aagaatgtag 240
ttctgattct ctatgtatct gttactcata ttcttggaac taatttaacc aaaacactcc 300
cccaaatttg gaacaaatct gtcttgatcc ataataatgc tctcctatag cctaagatag 360
ggtgcacaaa gatagcattt acatttagct tagggttcaa tgacacattc gttcacgttt 420
aggctcaaaa 430

<210> 20434
<211> 389
<212> DNA
<213> Glycine max

<400> 20434

tagcttgtca cccagctcgc ccaggcgagc aagggtgctt cctccagaag caacagcctt 60
ctggaggaat cttctggagg gcccaagtgg gcctgggtgc tatttgcacc cccattttta 120
ctaaatatac cccctgcctt tttttggtga ttcttttttc ataaagttac ggaaacttac 180
gaacttcgta acgatacttg ttttctttcc gtaatgttac ggaaccttgc ggattacata 240
atcatgcctt ttttgactta cggaaatgta cggaaacctc ctaattgtgc aacgatgctt 300
acttttgatt tccggtgtgt caccgaacct tacgaattgt gcatcaatat tttcttttga 360
tttctggcac gtcacggaat atcacaaat 389

<210> 20435
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20435

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ntcanaatgg aagggatcct tgctctctat catgggaatg ttcaattagt taaatttgta 60
attcattgca ttctttctcta ttcatttgat gtctattctt ggtctgtgtc attgttgaag 120
caatttgatt tatggataaa aactttattt aggctgggga cattcatcaa agaaaattag 180
ccatggtggc ,caggcagaga agtatgttca cgtgtcatag cctgnggatt gggcattagt 240
tctcttcaaa gtattaataa tgcagctacg ttgaagctaa gttgaaattt ttttattctc 300
taaggatcaa ttgttagaaa ttaggagaag ataaactggt ggattatgat aaacatcaaa 360
catgaacttt taggttaa at tgtcaagaat ataaaaaagt atgactgtag cataatcata 420
tcggtatcca tggatg 436
```

<210> 20436
<211> 388
<212> DNA
<213> Glycine max

```
<400> 20436
agcttattct ccttcaactg cacaaggctc ttaatatctg aagagtatcc ttgtggaacc 60
ttcacccgac gaagacactg acaaaaaactt atcttctcct tcttggacaa agtatggcag 120
gctgggggca agtaaaatttt cttcccatca gaccttggat gcaactgtga tcgtataccc 180
atatcagcta gatcttgacg agtattcaag ccataccttca tcttgccttg aatgttaagg 240
agcgtcccaa tcacactgtc acaaacattt ctccacatgc atgacatcaa tacaatgtct 300
aacgtcaaga tcacaccagt acggaagatc aaagataatt gacctcttct tccatatgca 360
actctgacta ttatccttct tttgggtc 388
```

<210> 20437
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20437

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nttgttgaga aacaaagtgg caaacttata aaagtcttga taagtgacaa gggaaaagaa 60
gtgagttttg agaggcagtt gactgttggc tatacacctc aacaaaatgg tgtatctgaa 120
```


aggaacaatc aaaccgtgat ggagaaagga ataccaaaag aattatggcc tgaggctatt 180
 aatacaaccg tgtacttggt gaataggtgc ccaacaaaag cagtatgaaa tatgacacca 240
 tttgaagcat gaaatggaag aaagccttta gtgaaccaca taaaattttt tggatgtggt 300
 ttgctacgct caagtctcta aagaaaagat tacaaagctt gaagaagcaa gtgagagatg 360
 catctttatt ggctatagtt ccgtgtcaaa gggctataga ctctacaact tgaagaccaa 420
 gaaagtgatc attagccga 439

<210> 20438
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 20438

agcttggttct tcatgatatg gaatgggtgct actcatatgc tatcttcttc cactactgtg 60
 attttggttg actaacctct cagegacctt gctatcttgg agaagctctt gatgaacctc 120
 tcttcggacc gagcttacct tatgactcta ctgaggcgat gcacattgca tggaggaggc 180
 gactttacta tgatgctatc tctgtctcga ctatcttaat atcctgccgc taagagatat 240
 ggcccgtgac tatgccttat tgttccatgt attgacactg ctctcaatgc tacaccttga 300
 tg 302

<210> 20439
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 20439

tgccgcactc gcatacagga cctgggtgtgc tattagaagg gagatgggtg ccggctcgta 60
 ctagatgtca catggactac ggtcctactg ccaccaccga ctttttcaag agatctctaa 120
 ttagacctca ggataaacga gcggggcgaca tgtgctgcga tcgatccac tacactgccg 180
 tcagactatg catgaatc ttcgatcca tgttgtactt aactcccatg tgtcacgact 240
 aaccactata cacttgacta tatgcattaa ccaaagtagc ctgactaacg accctgatag 300
 acatgtgcgg tatagtgtag cgccacaatg gaacctctta tataatattg atataccact 360
 cag 363

<210> 20440
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20440

tagctttaca actagtttct gtcttcacta ttttattctt gtctggttgc tcaaattaaa 60
 tgtattgttc taatttttta acattgctat ttttctttgt atgggaaaac acaccaact 120
 caattttttt tgcttttgat gtccacccca acccaattat gtgtgtttta gttgtattaa 180
 cagtgtcatt tgttatatct tgtgataact gggaatttca ttctgtgatt gtctgtttgt 240
 gtactgggct ggctntattg cagatgcaaa ggagacactc tcttgttttg taatttcctt 300
 ctctctcact ctggtgtctt aaagatgaac acgtatgtat ctaccagttt tgattgcttt 360
 caaaattaat acacta 376

<210> 20441
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20441

tcaataacta cattcacgac tactctcaaa atangggagt taagtagtca tgcggtttaca 60
 catcaagaaa gacacactca tccaagatat atatatgggc cacaagggtc ttgcaacact 120
 aatccacgca tcaaaggaga aatacgctaa ctaacaacat acacacagga tgatagaggt 180
 tcggttagcac attatcaatc aatatcaaga ctacttgcac cacccaatgg cttgccataa 240
 tgtccaaccg cacttcgcaa attatagaga tggccagtct cataactcat gactcaacaa 300
 tgaatttatg gtatagcaaa cattaaggat gcgcggcaca tacaagcatt attattaagt 360
 cttattttaat catgtaggag aaaatacgaa taaaaattca agcatgctca acaaaagtac 420
 tcataggtaa 430

<210> 20442
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 20442

agctttgatc cctcttcaag agtcgaattt gcaatccaaa gtgattgatt ttgttcttcc 60

ttctagaggt tggaaattttc aaaatttttg caaggccctt cgtttggata tttgtgatac 120

tgtccatgct ttgttccctc ccatcattac tcatacctaag gatgtggtag cctgtaagca 180

taaagttgat ggatcctttt cgttggcttc tagctgtgat gctctttgga aacgttggtg 240

gtccaaatcc tctttttgaa gcaatctgga agtggagggg tcataaaaga accaaagtcc 300

acctttggaa aatggctcat caagccctgc ttacgaatca gagtagactt agaagtcaca 360

tgactaacia tgctacttgt ct 382

<210> 20443

<211> 427

<212> DNA

<213> Glycine max

<400> 20443

tatcagagca atcagaggaa aatcttgagg aatgttaggg aaccattaga gatgtcgcta 60

tcgctgccgg aacacacgtg agcccgttta gaggtaaggg atgagttatt cacaattgag 120

gaatagttag aacatgtgta gggatcctta gaatatcaat tggaaatgggt ttttgggggt 180

gtttttgcaa attttgattc tattttttaca attataactg tgaattatac atgtttgaca 240

aatcaattga tatcccaatg agaaaatttc gtgaaattga tgtatttttg tgttgagtat 300

gaaccctaaa aattgagttt ttttttaatt aacataaatt gtactctaac taatattctc 360

tttgattgtt tattttatac aaattattgt aattttttct atatgattat gtgaaccatt 420

tgaggga 427

<210> 20444

<211> 384

<212> DNA

<213> Glycine max

<400> 20444

agcttatttt ctaagagatc attcatccat agatcagacc ttacttgtaa ttaattccca 60

acccaacact tgcctttttt taagcactta gctttcattt cattgatttg cagcacacac 120

acttttattt atacttacag ttttttttaa cacacaaaac tatgtgtgta tgctgctctg 180

ctttgaccat ttcattcttt tacccatgtc tcctccaaat ttgggacaaa tttactttga 240
catataactc cgcaaaatth gagacaaatt ttctttgaac caaactgttc tgtggatgat 300
gctctcctac aacctaagac aaggtagcag gagataaaac tgttaagctc aaagtccatc 360
aatcaacatt attcacttaa aagt 384

<210> 20445
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20445

ntagaccaa gcaactcana atctaggtat ctaaaacctc tcaatntagt ggattttcaa 60
ggtttgagaa gtgaaaatga gaatggggta aatctggagc aaactctcac ctacacaaag 120
tctataacct taatctaaac ttgggtcaaac tggttttacg cctaaaattc caccaaata 180
aaatttgact cctcaacacc caaattttac cctagaaatg gctcttgccct tcactttggt 240
cttttgtttt tctctcttgc acaacccaag ctntctcata agtcctaaat gacatttcaa 300
actangacta actcactnta acctccaatt tctactgaat ctagatttag cttttcaaac 360
cctcaaagca tcacactttt ccaactcataa cactacattc tcactttcta acctagatt 420
aactctacct ttcattcccta gca 443

<210> 20446
<211> 436
<212> DNA
<213> Glycine max

<400> 20446

tgtaatatth gagagaaaaa gagaatacca gtccatttcc tgtgccaaat acaagtctcc 60
caagcaccaa tacaggaaaa ttaggagcta atgctgttac aagggtcca acaagatata 120
ctactgcaga tccaatcaac tcctttcttc tacctaaaaa atcaaatttg tcacaccagt 180
ttcacccggg aaggaaatag caaaaatgat agctgacaaa aggggaaatt acctagaag 240
tcagcaacat tgaaggccaa cacagagcca attaaggcac catacaatga tccactagtc 300
tgcaaaagac agtaaagtcc ataggcccag gttatattca agatcaatat atatatggag 360

taatttcaat tgtgaacaat gtgtctaatac ataaaaatga caataagaca atgtaccatg 420
 accaaagaaa aacaac 436

<210> 20447
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20447

agcttggttaa agaattggatg agtttggttag tnattcatga aaggctaatt ttaaagattc 60
 aagttcattg agatccacct cttttttttt attctgattc ttcaaaattt gtattaacca 120
 tcagatatac gctggcttcc tcttctcctt cttcatcaga ggggggtgtc gtcacatcct 180
 cccaagtgc tttgagactt atctcttctt tggactttta atgcttggtg tagtcctttg 240
 atttctcaag ttcttagcac tttgacttga agtgtccaag cttctttcat tcattgcata 300
 taatgagact cttttatgtg tcttttttct ccttgaacac cttcttggag gatttattcc 360
 a 361

<210> 20448
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20448

tgcacttctt cactctcttc aggaatttca accttnttcc cactaagatc tnttagctat 60
 gggagccaag ttatcgcttg cgttctagac ttcaaccatt tgtaatagct gcttatgaca 120
 ccattgctac ttcccctaag ctctttattt ttcttttcca ctctattcca tgctttacga 180
 attctctgaa gtatcttcgc attagcttca ttgaaacctc acgcgatgaa aggetcaatg 240
 atttctctg atggcgcacc tctcataggg tagcctaact gtcttatggc caacacgaga 300
 ttataattaa tacaaccctt cgtccttate aaaggacat ttgggaatcc ttcacatgat 360
 cataacactc ctgccnccc ccgccttct tttcatcgtg ggaaccaact aatggatgct 420
 ccgctcatgc cta 433

<210> 20449

<211> 370
 <212> DNA
 <213> Glycine max

<400> 20449

agcttgata gttcccctat ttatgggtat ttcttattaa aatgtgtaaa taaatcttgg 60
 tatatgggta acgtttgctc taaaacattt tcattagaat taaagatgaa atctgtgcat 120
 tttcacgtga aaaccaatgc taagttttga attgcaaaaa gtagtagttg ggctaagctc 180
 aatagtttgg ctaagcacat aatcatcact aagcgcagct tcaacacact tagcgcaaag 240
 gagaatcttg caaagcatca acatccaagc cgcgcgctaa gcacagcatg tgccttcagc 300
 caggctaagc tcgggacatg ccttaagccc gaaatcactt actcgcgctt agcgcagcat 360
 cgcgatttca 370

<210> 20450
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20450

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 aaggagatac ccatctcggt cccctgctcc acctcaaaga tccgtcccc catgaactac 180
 cccaacaaa catagtccgc catatcccg cttcaccac acccgtaaaa gaatctgttc 240
 ccttcgtgga agataaggga aagattgagg cgcttgaaga gaggttgaga gcagtcgagg 300
 gcctcgga ttaacctcc tcggatctag cagacttatg tctagtaccc aatatcgta 360
 ttctcccaa attcaaagta ccggacnttt gatagtacaa agggacgaca tgtncgaaag 420
 ggcatcttcg gatgtattgc cgaaaaatgg gggagtatt 459

<210> 20451
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20451

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attcaaaact ggaaacttag attcctaggc atgagtcac cttttggcgc tttagtctag 120
cttctacaaa ctaccacac actcacaatg cgcantaatt gattcgcaag ctaagttcca 180
caaatcatg cgcaaatggc attgaggcat ttcaccgaac acttggtggg ctcatgttta 240
agcctgaaaa tcaagggaat gggggacatg tggcatgccc ctttatctca gaatgcaccc 300
tatgcctaatt gccataccct acaaccccat aattcaacan aaacaagaca tatttcaagg 360
ataaaatcct cacattctga gcaaatacat gcaacttaga ccaccaacat atatc 415

<210> 20452
<211> 415
<212> DNA
<213> Glycine max

<400> 20452

gatctggttg aaatatcttg ctagaagggtg tttctattat gcttgtattc caagcattcc 60
tgacatactt cacttggcac ttgaatgtgt ggcaaccagt gcacatatt atccctatgt 120
acgaagtgtg gatcctgaaa ttgagatgcc caaacttata atgccaaagc cacttacttt 180
tgctcactgt tgtggctaga cattcatgtc ccataccatt aattcctacc ttaaaggatg 240
tgttctttga cataagatcc tttaaaacta gtcttttctt gttgtcatac accattagca 300
cattatcttc cattttcatc acaaatcctt tctccaggaa ttgaccaagg cttaagagat 360
tattcttcat ttcgggcaca aaaagcacac cagatatgaa agattgttta ccac 415

<210> 20453
<211> 491
<212> DNA
<213> Glycine max

<400> 20453

agagatgtga tgctgatgac gtccgtataa tacaaactct gcgtgggcgt gacaacatct 60
gaggggtgct acatctttcg cttatagccg aagtcacacg gtcatagcga ggcgattatg 120
tcatgtgaga ttatatcgga gcaatctctg accttaacga agctgtcaac tttatgtata 180
cttggggcac ttgggaacac gcctaagtag actcgaatat ttttcaataa tatggaaaca 240
atgtgtgata cccgaacatc ataaatagag gtttttggct tgtgagggtga ataattttg 300

aacaccacat ttctatatac accatagaca aaacggatta taatgatcta ataacagtag 360
 tgctgattta caattattgc agtttcaata tgatattgat tgccaggcga cccatcgatc 420
 gaacactagc cggatacgcc acatttatcc gaggatgtgg cacttaatca acgatgaaac 480
 ttgcttaatc g 491

<210> 20454
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20454

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 attacatgga aacgcccagc aattcatgaa atcaaactga attttgatgc atcggttaat 120
 aaggagaaaag gaattggcat ggaaatggta gcccgaatg actatggaga ggtgcttggc 180
 tcagctatct gtgtaatgaa aatgaatgtg gaaccaaaga ttgcttaagc cctatgttat 240
 agacgggcta tcaaagtggc gggtgacttt tgtttcacat gagtnggttt tgaaacggac 300
 tgcctcaact agtccaacgt aggaaacgca acttgatcac atgcagagat tatttctcga 360
 gcattcattg tgattgcac tcaac 385

<210> 20455
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20455

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 gatattgaag gaataaaaaga ggtagagaag tggaactttg aagtatgtct cacaagaccc 120
 tcattcatca aagttacaac aagtgttaca catgcttcta tttatagact aggtagcttc 180
 cttgagaagc tntcttgaga aaaattcctt gagaagcttc tttgagaaaa cttccttgag 240
 aagctagagc ttagctacac acaccctct cataactaag ctcacctcct tgagaagctt 300
 ccttaagaag attcctaaaa aagctagagc ttagctacac atacctctct aatagctaag 360
 ctcacctcct tgagatgaga agctagagct tagctacaca cccnctataa tagctaagct 420

cacccccatg acanaaaaca tg

442

<210> 20456
<211> 393
<212> DNA
<213> Glycine max

<400> 20456

tgtttgcaac ttgtatgcat gtatcccacc atcgtctcat agtagaacac aggtaatgcg 60
tctactatta ttgctatcat tatcctttcc atcattgtgg gcactacttg agataccaga 120
tcccttcacc tttgggcata tactttgaaa gattcatgct ctctcttaca catgttctat 180
aacttcattc tattcaaaac catatcagaa tcgtactaat attgcctatt gaacgcaacc 240
ataaagtcct tccaagaatg gacccgcgaa gatttccgat tagtatacca tgtgatggct 300
gcccaataag actttcctag atgaaatgca tcaccatttt ttcattcttt gtgtatgctc 360
acattttcta ccatacatct taagtgatcc ttg 393

<210> 20457
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20457

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ctggctgata tctttaggaa gctataaata ggggttggtt tctgtatcta tgaaatcttt 120
tacctaatta cgaatttaag agtnttgaag cgtggatacc accatgagga tgaattatgg 180
tcatcattcc taccttgccg gtatgtctat gctaatttca tatatgtctt tgagttgtgc 240
tttgatcatg agcgaccagt caccatagtc caagggttat gatgtaacta tccaatggta 300
tccctttctc tgatcttaat gaaattctc actcttttat gttaactaat actcttctta 360
ttcttattgt caattgggaa ttagtcaatc taagcttaat gaatgtattg tgggatgatt 420
ttgttgt 427

<210> 20458
<211> 375
<212> DNA
<213> Glycine max

<400> 20458

tggttgaagc ttgttcaacc tatcaagagt cacattctaa caacaattgt tccagcttgg 60

agaattcatc aatggatgga tacatggagc tataagaaca attgataact gtttaatatg 120

agttatTTTTg ataataagaa tatattgaaa atatttttaa aaatatttat ttaacagtta 180

ttcttggctt aaatattaag atttgatattc tttcttattt atgacgttgc catatgaaaa 240

ggagagatta aaagagataa agatcgaaaa aatatccaag atatcaggaa atcattacta 300

gctaaacaaa tcctaaagat atcacaaata tcaataatga agatttttaa catcacgccc 360

aagtcactac aacaa 375

<210> 20459

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20459

tgcactacta gtagcttgcc aacgtggctc caaaattgtt atgatgagag aagtgcata 60

atggaagatc aggtttgtat cataatagtc acattttgac tcattaaaaa aaattattaa 120

taggatttat tnttttaaag catttctgat ttttttcccc ttcttaaaca ggataatgca 180

aggcttaagg atctgtgcaa gacatggaac tcattatgca actcaatata cagacaccct 240

tccattaatg agaaacaagt tttctttgtt tcatcatctc cttcatctcc cacttctgtt 300

tcctcacatg aaagaaagtc caactttcac cacagccacc taaataggcc aatcatttct 360

gaatcagaag agtcacaaaa tgaatgtgag tataactga aactggtgat gatggctatg 420

atagcaactt tataatgttc atgccagata gt 452

<210> 20460

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20460

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tgtcttcttc taaatcccca tgcaagaatg cagttntaac atctaactgc tccaagtga 120

gattctctgc agctactatg ctccagaataa ctctgatggg agtcatcttt acaactggag 180
agaagatctc tgtgaaatca attccttggt tctgctgaaa cccntncacc acaagtctcg 240
ccttgatctc tcttctaccg tcagattctt cctttagcct atagaccac ctattctgta 300
atgccttctt tccttctggc aatntagtta aagaccacgt cttattcttt tgaagggatg 360
tcattctatc tttcatcgct agctcccact caatagtgtc a 401

<210> 20461
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20461

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ggatctgag gatcacttga aattagtga aaaaaatcgt tccgtgaag aaaatccaag 120
ccgaggcgt tccgtaacgc gtctgaaacg tttccgtggg tgattccgtg aagattttcc 180
gccatctatc gttcgttctt catcgttctt cgtcgtcctg cggctcttcaa ccgataagtt 240
cccgaaatcg aacttttcaa ttcattctat gtacccttgg tggttcccac ttgtttcgcg 300
tacttttatt ttcatttcat ttactttctg tatccctttt tgacgtgctt tagtcattta 360
tttaagtcat tntctgcct aatcaaaaaa taaaataaat ntccaccgat ca 412

<210> 20462
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20462

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cgcgactggg ccctttcttc ccttcgcaac ttgagttcat tattgctacc ccatagagct 120
ccgcgaaatt tgttccggcc gtactcttnc ttgcgagccc tcttggtctc ttgttcaaag 180
gcttttgcgg taattgcatt ctcttcccggt acccgcgcac tccttccgaa tgtgtgtagc 240
agccaacttg aacttctcct tggcgagtat tgcctttcct aactcgcttt tgagagcttg 300
gacttctctg tcctcttccg gcgcttcaaa atctcttcgc tgacgactnt taacttggcg 360

agccaatcta aacctcgtat g

381

<210> 20463

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20463

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tcacctcccc ctctaaaatt taattggatt gggattctcc caattcaatt aaatctattt 120

tccaacacac acatganata ttcactcaat tcatgtgaaa ttacaaaact acccctaata 180

caaaaactag tctaggtgcc ctaaaatata agggctaaaa aaatcctaca tttctagggc 240

accttctcta tattatggag ccctaaatac aaggccgaan aataatgaaa ccttaatcta 300

atatgtacaa agataagtgg gctcactatt agcccatggg cccgaaatct accctaaggc 360

tcgtgagaac cct 373

<210> 20464

<211> 339

<212> DNA

<213> Glycine max

<400> 20464

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gtaaaaattt attgtcgctt gaattggctc agaggctcaa cattcaattt tgagcgtctc 120

gatatattac gggactcaat cagacatccg aataaaaagt tattgtcctc tgaattggct 180

cataagttga acattcaatt tcgagcgtct cgatatatta cgggactcaa tcagacatcc 240

gagtaaatat tattggccgt tgattggctc acaggctaac attcaatttg agcgttcgat 300

atataacgga ctcaatcaga catccagtaa aagtattgc 339

<210> 20465

<211> 342

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20465

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 tcgagacgct caaaattgaa tgttgaacct ctgatgcaat tcaaaggaca ataacttttt 120
 actcggatgt ctgattgagt cccgtaatat atcgagacgc tcgaaaatga atgttgaacc 180
 tatgagccaa ttcaaacgac cataactttt tactccgatg tctgattgag tcccataata 240
 tatcgagagg ctcgaaattg aatgggtcaac ctcttagcca attcaaacga caataacttg 300
 ttactcggat gtatgattga gtcccgtaac atatcgagac gc 342

<210> 20466
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20466

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 catcaatcat ctttgaatca tctatctttc aatcttcttt caacattctt caatcaatct 120
 tttcaactct ttctacagca atttcggatt catcttctct tcatctttct tcaaagtttt 180
 ggtcaatact ttctctttca agaaaagttt ttgataaaa aaccttggtc tattcatctn 240
 tntcattctc ttctcctcca tgcggcctt catctgcctt tgcacctcct gaattctttt 300
 gtgtctctct tctcccttac acaagattct aaggactaac cgcctgagaa tcttttggat 360
 cttcctttcc ctttaagcaaa gagttcaagg gactaccgcc tgagatattt 410

<210> 20467
 <211> 443
 <212> DNA
 <213> Glycine max
 <400> 20467

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 agacccatgc atatgttttag ctcttggtt ctattcccta tgtcaataat cgcgaaaaag 120
 aagtttacta caggaaaaac tacattaaaa gctctctatt ccgtctagtc tgatattacg 180
 taaccagtcc atttcgtatg tctttcgaag cgagggggccg ggtttccttg tttcctttcg 240
 gaggacatgg tacatgccct gcaagaaaat agtctttata ataataatta taataataag 300

aagtcctgtt ctctctcggc agctaccatc ggatcatcgg agttgggcag ttacatcttt 360
cattcaataa ccagtgggtg aagggttgatt cccaacaaga gcaacatgtt caataagatg 420
ggagctaaag gaagactcac ata 443

<210> 20468
<211> 253
<212> DNA
<213> Glycine max

<400> 20468

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atacaaaaaa attcccataa ataatttaca atttataaat taaaagaaaa gaatggtaga 120
acaaacctga gagggtaaatt gggttgtcaa cctcaagtcc gtgactgcaa atcattgaat 180
ccaaacctta gtttcaaag acctgcaaatt gtaggctggc ccacaaatac attatctatc 240
acacactata act 253

<210> 20469
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20469

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gagccagacc aaggaaaaat acatcaaaga aaataaataa tctagtatag ctaattttat 120
aatcagataa agcatctaag acctgctgcc atgtggtatc aacaagaggc agccgccgag 180
cattgccagc atcaaaatcc agtacaccat aatccctcaa ccgaatctac acagcaataa 240
ctaaaataag aagtcttttg agaattaaat gcatggcatt atctataaga cacattgttc 300
aaaatgagac aaacccaaag gaaggcacgg attctttgca aattcccaac accaacacca 360
agagcagcct accattagat aaaaaagcaa gcagaaatta agtggtgata acaaaaacaa 420
attcatgctt gctctcttat atngaatatg aaac 454

<210> 20470
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 20470

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 actcctataa aacttcatct tcaagatata ctctctttgt ctttgagctt caatactccc 120
 tttttggcca cataactaac tacttgagtt ttcagttaag tatttctaag tgatcaattg 180
 tcactcgcta aacaactatg aaactctacc atcaccaaac aactaaaaga ctactcaat 240
 caatgcctac aaagctactc taaccatcca tgtaagtttg agcaaaaaca cctctaaatt 300
 aatttcaaat tctcatctaa taattntttt tggatattaa atcttaaaaa tctatctgac 360
 tttaaaggat gcatgaatgt gcaactcaata gtaattttct tattaata 408

<210> 20471
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20471

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 atcgatgtca atattattct cccaaccatc cttattttct actntcacca ctcatcttca 120
 ctatcatcca agtatatcca caacacatgc accacatcta gtgaagggct ttatgaagaa 180
 cttggcaggt tctcagataa cattgcaaac aacatgacaa ttttaactga ttcctttntc 240
 tgtttgaatg agttgcanga atagagggtg caaggaattt gagtttaatt tggctactat 300
 gatatacagt tttttatttt caactagatg tgcataaat aatgcactca ctctntatga 360
 ttgcatcctt aaaataaaac cacacagacc accataacaa anaataaagt tcttcaatgt 420
 tcatccatac ttaatcctt 439

<210> 20472
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20472

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tgcgctttac aagttgccat tgcgggttcc caaagatgac caagaatatg ctggttttatg 120
 gggaagaact tttggttggc ctcttggaac gccttctgaa gacaagcctg gaaaggcttt 180
 attctttctt ctgctctctt atgaggagtt ccagggacaa cagcttctca ttgcaaccaa 240
 aatttttgaa ggcacacact atgtgttaca tcctaacggt tcancaattg ttacagcaaa 300
 tatcaatgat ccttcatccc aacccttttc ctgggacact gatgcagact 350

<210> 20473
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20473

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 ccacaacccc aatattgtta cttcccatat ctgcctcttg aaacaacaca gttgcccctg 120
 ctttatcaac ctgttaaacc acattagcaa agactgttcc ttttaagagaa aaaaaaata 180
 caattattca tgatatgctt attntgtctt cgccataaac acaatggtaa aaaatcaagg 240
 gatgtcagtt tcatgtcatt tctgtttcct gctcatttcc taacagtttt tcctttattt 300
 ttctcacttt ctagttgaaa ttgtagtat attattggta ctattgaaat attattttat 360
 attattaata aatactatta tataacaatc aattcccact tgcaacaagt atctatcaat 420
 tntgctaact ctctaattgt gtgaatcact 450

<210> 20474
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20474

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 ttcaccogat gaagacacta acaaaaattt atcttctcct ttntggacaa agtatgacaa 120
 gttgggggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcatatcccc 180
 atctcageta gatcttgatg ggtattcaag ccatacttcg tcttgccctg aatgttaaag 240
 agagtcccaa tcacattgtc acatacattg ttctccacat gcataacatt aatacaatgt 300

ctaacgtcta gatcaaacca gtacggaaga tacaagagaa tggacctctt cttccatatg 360
 caagtcttaa ctttatcctt tctttgggtc tttccaaata cagtat 406

<210> 20475
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20475

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 ttgcaacatc atcttcctta taagaagacc attggctact aatgatcatc tcttgaggc 180
 ctttcttcaa tagtntgaat ctcttgagca ttacaatagt ggaggcaaat ttttgtggag 240
 caatggaaag caatttcaat gaatcgaatg aattgaaaat tgatagtctc atagagtgc 300
 tcatgacana gttttcacia atattgcac atccgcata tngtgatcc aagaacattc 360
 ttcataagca acattatctt tttctgtatt ctggctgca catatgttct tcanagcang 420
 aattaatgta tggacaacac atggagt 447

<210> 20476
 <211> 357
 <212> DNA
 <213> Glycine max
 <400> 20476

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 gcaatatctg cctgcttcca cactttaact aatgtgtact ttgataattg gatttttgca 120
 ttgcttggtt tttcccttcc attgcaggta tatccagagc acatgtgcca cctctgggga 180
 aggactatat gaagggctgg actggctctc caacaatata gctaacaagg tatgccttga 240
 aaatctgcat cttttgtggt cggtgcttga cctgtgatac tctgatttct gggtactttt 300
 ctggatcacg cctaagggac attttgtgga atgccgctat cttcttgctt gctttac 357

<210> 20477
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20477

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ggtgttatat tataataact ggtcattaat ctaaaatatc tcagcccttc gtccactaga 120
ccagcatggc tacaagcact tagaactgcc ataaacacca tcttatctgg tttaatatga 180
tgagaatcat gaaacaggcc aaatacagtc taaaggccca agtggagaag gacgaaggcc 240
caagtggaga aggacaaagc ccccgagtgg agaattgatga aggcccaagt ggagaaggat 300
gaaggcccag aggcagagac actatcaaga ctattaattg ttgctgaagg cccaaactaa 360
tttgaaggcc caagttaaatt aagtttctag ttataattta tttttattgg aattttggcc 420
canactgtct agaaagccca tgtctatatt tatct 455
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<210> 20478
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20478

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aaacagagca aaggcagaaa actctgccaa aacaccaacc aaaaatcaca gctgttccca 120
ctcaaagacc ccagtaacaa tgtccttcga tccaattcgt taaccgttgg atcgactcca 180
aagattttact ggaagtctat agtgcataag cctacattat gaccggtggg atctactagc 240
aaacatncag aactcattct acattactct ttccacaacc agcaaataca tggatgtttc 300
tgcacttgtg cagaattctg ctggcacaat ttacagcaga atctgcacaa agagcatatt 360
gcgaaaccac acttccttca tcaatct 387
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<210> 20479
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20479

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tgtgccttta cganaagggt catcgagtca agttgaagta tggaagtaac catcttgcaa 60
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aaaattaagg caaaagatgg atcgtgttac atcgtgtgctt cgtctactgc caaacacatt 120
 tagggctggt gatgtccctg ttacttccag tttcaccttg acgaagatgt catggaccat 180
 gttgaanatc taaattgatt caaccccata tctagtgtac aaattcgcaa tacttcaact 240
 gtgcatcatt cgcatacatc catgttgttc attgggttgca ttgctcattg cattctttcc 300
 ttgaaaaaaa aagaacttaa tcattgttat atataaaaaa aagaacccgc tntacggcgc 360
 ccttaccaaa cctgtgctag agctagagta atgggtaaag ca 402

<210> 20480
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 20480

tgaatatatt tatgggctca atactgcatt caaataaaag actatcgacg ttcaacgttc 60
 ataggatgat acgcttcaaa tcttgagcga ggtaatctct tacgggacac acccggcac 120
 cgagtaaaag ctatagcact tgatcttctc aaagttccat gattatttcg aggactggaa 180
 acgaacggag actaggtacg tccagtcaaa tttatgtgga tgactttata agagcttctg 240
 gaaaaattcc cgggtctaaag acacggcac 120
 ttgagactct aggaacagca cgtagtgaaa 300
 tacttgagat tgtagaatat cacaatcggg ttttcgc 337

<210> 20481
 <211> 306
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20481

tctatataag ctgaccgatc ccatcgataa acacattgng ttttgtatac agaaaaccac 60
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 accctggctg catcaaagga ctttcacaac ctttgagtgt tgccctcgct tgatacagtg 180
 actctttgct tacttacatc ttcaccgctc gttctttgca accaccattc cagaaaatcc 240
 acctctggcc agaattatct cgtggccata actcccattn tacgcactca tattaagaga 300
 ttcttg 306

<210> 20482
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20482

agctttttat atcgngtncc ttactatgtg aagctggcat cctcacatgg cacgtgaagt 60
 ttatgatgca tataaattca taaaaggatg tatttttagtt tgtcccactt gttcttcgtg 120
 aagttaagtg aaactcaaac ggtcaggatg tgaataggga gatataacgt tggtagggag 180
 ggaggaataa gttgtgggat tgaatctttt tactaacaag aattaacaac taatatttgt 240
 tgataaaaaa tcaataacca atgtgaatag ttaaaatcaa agagagaaaa agttatatatt 300
 tatcatatta ttctaacggt taatactaac ctgcattgat ttttttaaaa aaagtaacct 360
 ggatcgacat tagttggaaa attaatgtgt tttctatgaa gtg 403

<210> 20483
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20483

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 tntcagaaca acaaagtgtt tctcctctca aagagcaaatt tcattttatc ctcttaagaa 120
 ttccttggcc aattcaattg caattcatta aggaattatt tgagtgtctca atctgtaaaa 180
 tccatctctt tctagagaga tttgttcttc ttcttcttct cattttctaa gggattaaga 240
 gactgtgagt ctcttgttgt aaaggatctc taaacacaaa ggaaggattg tccttgtgtg 300
 tttagaactt gtaaaaggaa tttacaagat agtggaactc tcaagcgggt tgcttgnnga 360
 ctggacgtat gcacaagggt gtggtcgaac cagtataaaa ctgagtttgc attctctctt 420
 cccttaatc 429

<210> 20484
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 20484

agaaaggaac catctnctcg acaattcttt aatctcaaca ccaaaaacag ctggtgcgag 60
cgccctcact aagactgggc ggctggcaag tctctcggag agataatcag acaggtcatt 120
acaaagatga acatcttccg aaagaactaa ttcaagacct cctttaagaa cggaaatagc 180
aagatttttt catgaccctg gatgcattaa ttctcagagt catatgagag gctatcaagt 240
cggccaacca acggtataag agaacttaag aacactatgc tatctatata gacagcgac 299

<210> 20485

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20485

agcttatagt acttcacttg aaacattgtc tttcttcccg actaactaga tgcattgcaaa 60
agggaaagta atcaactcat ttcttctgca taccaacatc ataggatcaa gaacaccgtg 120
acaaaagtgt gatttgaggt atgtttgttt tatactctgcc gataactacc ttgcaagccc 180
taaaatcata caccatttgt aattcccatc atgtcatgaa tatgacacat aaaatgttaa 240
tcaatctcat tctgacacca atttcaataa ttacagtata ccaacacata ttatcactca 300
agtgattcaa ccatgataca tangattgca ctatagtcac aaagagaaca catttaagaa 360
gaatgacatc ctaatttata tcaatactat aaagctcta 399

<210> 20486

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20486

tctagaattg catgtaaaaa atatatggca taatttgctg taaaggaagc tttccactca 60
agagtgtgtaag tacatccatt ccatgttctt aggatcaaca aaatgcttta atgtgctaga 120
gctgatagtg tttagtctgg aatcagaggt gcatctagaa agtcacaggg aacatgtgct 180
agagtcacca ttggtcaggt tctttntctt atgtgttgta aggagaacaa caatcatcat 240
gcacaaaagg ctctttgtgg tgctaagttt aagttcccta gtcgtcagaa gatcatagtt 300

agctggtgtc agaccctaatt ttcatatggg ggcaatcatt tgcaaacatt tggattcttt 360
ctagccgaat tgagctgctt aacacttgat tttgcaatca tttcaccttn gaagtcatga 420
ttttgcacac tttga 435

<210> 20487
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20487

agctntacta atagaatcat cttgatatga ctgttttgga agtcctctta cgaggctatg 60
cttttgaagc tttgagatta acctccagct agcatgggtca aacttcttat tccatacnca 120
gtaatgctct ttgactaaaa gtaagcatga caccttttga ttggatagat caccaagttt 180
aatcttatag tgatttcctt gtctcttagt agacaagagt aaagagttgt cctttgtttg 240
gatgatacac atatccttgt taaagttaaa ggtgacattg tatccactat catacaattg 300
acttatgtc aacaaattat gcttcaatcc ttttaacaagt aaaacattat tgatagaagg 360
ataataagga atacaaacct tacctacacc tatta 395

<210> 20488
<211> 462
<212> DNA
<213> Glycine max
<400> 20488

tatgctgcaa acatctacaa tagacctct caacctcagc agcaaaatca gccacaacag 60
aataactatg acctctccag caacagggtac aatcccggat ggaggaatca tcccaacctt 120
at ttgggtcga atccttcaca acaacagcaa caacaacaac cttactttca aaatgctggt 180
ggcccaagca gaccatacgt tcctccacca atctagcaac aacagcaaca acagaaacaa 240
caaacagtta aggccctcc gcaaccttcg cttgaagaac ttgtgaggca aatgactatg 300
caaaacatgc agtttcagca agatatcaaa gctccattc agagcttaac taatcagatg 360
ggacagttgg ctacacagtt aaatcaacaa cagtccaga attctgatag attaccttct 420
caatctgtcc agaatcacia aaatgtgagt gccattacat tg 462

<210> 20489
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 20489

agcttttagt ttcaagattc aagaatcaag attcaagaat ccagattcaa gaataatcca 60
 aagattccag actcaagaat tcagaatcac gagaagactc aatcaagata agtattaaaa 120
 aatttttccc aaacattgag tagcccaaga agttttcaca aaatcattac caaagagtgt 180
 tactctttgg taatcgatta ccagaagata gttattgatt accagtgggt taaaatgtta 240
 agatttcaaa ttcaagagtt acaacttgtg tttaaaccat ttttaacttgt ggtatcgatt 300
 acacaatcct tataatcaat taccagtgggt tctaaatgggt ttaatcttca aaattcaaaa 360
 tgaagagtca catatgttga tgtgtaatcg attacacctt aatg 404

<210> 20490
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20490

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 caattgggtga actaaatggg agggggggctg atttagtgag ttggaataaa taagggggact 120
 atttttgtaa ttaaaccctt aattttcata tgtttattta ttctcaattt agttatattg 180
 ttaattttca gtgttatgat gttatttggc aaaaaattaa cttaataaaa tataataaat 240
 aaattaatag tgattacaaa taaaataaaa tattttttat ttttatactt gataattatt 300
 tttcatttaa ttgtcatcat cataaatcat tgttatcact ataaacaatg tcatttatta 360
 tcattacgct aataatgtat atttagtata acatctaatt aaaaattcaa aagtgccttc 420
 agtgattaaa atgacaatat tgtgtaagtc cat 453

<210> 20491
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 20491

agcttggtttt attaactttc tttcgatgat atattcctgt ataagtttaa gtctgggggtg 60
 cttttgcttc tctgggttcat taattctcat caatatatta gaaagttacc taagaaatgg 120
 acaaattcac atgtaatctg ttgatttaca cactttccgc cgcctaaaaa gtaataactc 180
 ggttggattt gatatacaag aaaaacattg aacatcgatg aatatattaa ttctttatct 240
 tcaataaaac atcttcaa 260

<210> 20492
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20492

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 acgattatcg tctgcctttc catcattggg ggtaccactt gggccgccag atccctccac 120
 cttttgggcg tgttctttga aagatccgtc cccctttttg caaatgttct gtagttgcat 180
 cctatccaga accatatcaa aattgtacta atactgccta acaaaggcaa ccattaagtc 240
 cttccaagaa tggactcggg aaggttccaa gttagtgtac caggtaacag ctaccccagt 300
 aagactttca tggaaggaat gtatcaacaa ttcctcatct tttgcgtatt ccctcatctt 360
 ctgacaatac atcttttagat gggtcttggg acaagtagtc cncttgtact tgtcanagtc 420
 cagcaccttg aacttgggac gggatgatg a 451

<210> 20493
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20493

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 atggatggcg cctcctctca cctctttctc tttgtcttcc gctgcatctc catgggtggaa 120
 aatcactatt aaaggacctc attgaagctc anagatccaa cctccataga aacccccaaa 180
 gcaagcttcc atcataacca ctctatttcc cctaccaggg atatccaact tggcactgc 240
 actcccatg tacatacaca acatacatca tcacaatgac attatcaaca tcaacaacat 300

ctcatctcaa tgtcattatc atcatcaaca tgateccatc tcaatgtcat tctcaacatc 360
aacatcatct catctcaatg acattatcaa catcaacatc atctgatttc aatgacg 417

<210> 20494
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20494

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tttacacaat tcccagtaat ttatacaagt ttgtatgttc aagctgtcag caccagcgat 120
ttcaacctag aaatcaagaa tagtgtttat gttgcttaag gcttggatag ttacaatttg 180
tgtttgctta tgctcaatga tcttgaataa caaaattcaa gagaacttaa gacttatttt 240
gattcacaaa tccagccaca actcagcacc acaactcaac ttcacatag gaatcatgta 300
ggaaacttag aaaacaaaaa aaagagttca acaacaagac tacttctagg aattgattta 360
gaacatgtta tgaactaaat aacatgcatg aattagactc anaattctaa agataggcta 420
agaatgacan gaatacatga acaaattgtat cta 453

<210> 20495
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20495

agcttataga ggaagcttca atggaggaag agaatgangg aaaaagagag gggggcacga 60
aattgaagga gaaaaagagg gagagaagtt aaactttgaa gtgtgtctca caagtttcac 120
attcatcaat gttgtgacaa gtgttacaca tgtttctatt tatagcctag gtcattaaat 180
aaatgtaaat ttcatttaca tttcatgtga atctaagagg aatattccaa gaatatgcca 240
aagacgtctt agcatattcc aagaatatgc canaggcatc ttagcatatt ccttttagat 300
gccacaagaa tggaaggaat gtgtgattct agcacatgan aaaggaatat gccacaagaa 360
tat 363

<210> 20496

<211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20496

tctagattag tgtaccagat gaccgctgcc ccagccaagc tatcttgaaa gaaatgcatc 60
 aacaacttct tgtccctaga gtacacaccc atcttgggac aatacatttt gagatgattc 120
 ttaggacaag ttgtcccttt gtacctatca aaatcaggta tcttgaactt cggagggatg 180
 acgacgtccg gcactaagca aaggctcggc atgtccgcga acggataatc gccgaagcct 240
 tcaacaactc tcaatctctc ttcaataaga tcaagtttcc cctttccttc tactgccagg 300
 ggtggcccta ttggctgtgt tgggtggttt cgaggttctc ctgtgatgtt gggctgaggt 360
 agtgcgttgg gtgttggtcc ctcggcgggg aacgngagat aggaatcaat gtctccctga 420
 gcatgcactc gacgatcctc gtggacc 447

<210> 20497
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 20497

agcttctact tatgtggcaa ggcgggcttc cttcaccttc ttgtctccaa cgcgaacttt 60
 gaccatttgt cttccttccc gggatgcttc ttttcatgtc tgctgagtg ggcttatagc 120
 ctaaaccata cttcccacga ttaccttgag tatttatcag tctagttatg ccgccggtgt 180
 tttttcctaa acccatcccg gggtcataac cgttcccca ctaactcgg gccatcatta 240
 ccgtgcac cgcagacta agctgccc aaagggagtc cacggaggaa atgctgacca 300
 cctcaaaaga ctggagaagc agttctaacg attcttct 338

<210> 20498
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20498

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tattctttcc atgcttgtca ttgagagatc gtgaggggat ccaatgatgt aacattgtga 120
 tttctttaat gtgtagttag gtgattntaa ttagattgca agagaaaata aatttaattt 180
 tcatgtttta aaaaatataa taccttgtgt tgtttaagtg ttgtgggtta aattgttttg 240
 ggcttgaaac atggtttttag agggctttta tattgtaatg ttgataaaa aaaatggtaa 300
 acaatggaga catgagcaat gtaattcttg tactttaccc aaaaaaagga tcacagttta 360
 gtgattttgt gtgatgagaa tctctccctt tttcattant accttcttnt ctctctcctt 420
 gcttttcta 429

<210> 20499
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20499

ggcgaatcag ctcgacccgg atccttaagt cacctgctgt tgcaaacttt ctgtcctata 60
 tttgatattc cataagggtc cagatattcc attcatacat ctcttaaagg acgggtgtga 120
 ttaacttatt atacgtttta aatttactta ttaaagata agtctttaat aattaagagg 180
 gatttttgtt caaaataatt tggcagaaag ccgtttataa agtgaaggat atgatctatc 240
 tacctgttca ctgggatgtg atttgaatta acatagttca attaataaaa aattaaccgg 300
 ggattgggtg attaaattat tataatccga ctaattaact aatttttctg ggttggtgat 360
 ccgttttgcg attttaaatt tgagagaata tt 392

<210> 20500
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20500

tataagcctc attatctggg gtggtagatt tcccacattt tccagcactc tccaccctg 60
 caatagtact cacaagcacc acanacccaa caaggcatag caacttcaca caataagtac 120
 aaccctccat tattttctca tattatgctt atgtctctct attagtgaat tgtttctctg 180
 ttgatttcac aatgcaataa cccctttggc tctcatgggg ttttatagcc taacatgctc 240
 caaaaaagtg cttggccttg tcaccctctg attaatggag cttgcactag gacaaaggg 300

gagtttttatt attgcaccac ttatgaacat anagcaggtg tatacacana ttgctccac 360
 ttatttgtcc aatcaatgta ggtgtgtctt tgccaacaca attctttttg ttttcttact 420
 tccaaatgta gcattattca cag 443

<210> 20501
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20501

tagctttcgt ncctgagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaatg 60
 agagagcaag atatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
 ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
 cccatagcaa caaggggggtt gaagagtatt tcaaggaaat ggatgtgctc atgattcacg 240
 ctaatattga agaagatgat gaggtaacta tggctcgcac tcttaatggc ttgactaatg 300
 atatccatga tattgttgag ctgcangagt ttgttgaaat ggatgatttg cttcacaaga 360
 tgtccgatcc actagcataa tataacgag 389

<210> 20502
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20502

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 caagttatga ccatttgaat ntctcgagag cttccgtatt tcaatnttga gcgtctctat 120
 atgtgatgtg cctaaatcgg acatccgagt taaaagttat gtccatttga atttctcgag 180
 agcttccgtt gttcaatttc gagcgtctct atatgtgatg cgcctaaatc ggacatccaa 240
 gttaaaagtt atgaccattt gaatttctcg agagcttccg ttgttcaatt tcgagcgtct 300
 cgatatatta tgcgcctgaa tcggacctcc gattgaaaag ttatgagcat ttgagttgct 360
 caagagcctt catatggtca attctagcgt ctcgatatat tatgcgcctg aatcggacc 419

<210> 20503
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20503

agcttctccc ccaattntct ataaataggg ggagaagtga agtgaaaaag gggtcagccc 60
 cttaggcact tctctctctt tcgaatntgc ttggaaaaat tgtttccgtg aagaaaatcc 120
 aagccgagggc gcttccgaaa cgtttccgta acgtttctgt gaggaatttc gcgaagggtt 180
 cgaccgttct tcgacgttct tcattcggtc ttcacgttcc ttcgatcttc aacgggtaag 240
 tacctcgaac caagcttttc gattcattct atgtaccctg ggtgggtccac attgtgtttc 300
 gtgtattttt attctcggtt catttacttt ttataccccc ctttgacgtg cttaagccca 360
 tttatttaag tcatttctcg ttaaccctaa aataaa 396

<210> 20504
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20504

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 gtcgactctc cacatccaca aatcacacat aaatccacca tccccagttg cccaccttca 120
 actgagctca cgtactccca cgtagccctt atcctcggtc ttctcaacac cgggtcccca 180
 tcaatccctc caagcttcca caacatccaa gcaattcaac atccaaacat catgcactat 240
 caaaaacaag aaaacagggc agaggcagaa aactctgccc aaaacacaaa ccaataccac 300
 agctttcctt actcaaatac cccagtaaca ttctcttcgt tctaattcgt tcaccgttgg 360
 atcgactcta aaattttact ggagggtccct agtacataag tctacattnt gaccgttggg 420
 atctgtata aaacgtncag aaccaaatat gt 452

<210> 20505
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 20505

ctttagcttt tattaccctt gcatgaaatg cgtttttata atcttataca tgaacataag 60
 taatggtaaa tatatcaaca gtgtacaaca ttgatataatt gtcttctaaa aaattaatac 120
 aaatagtgcc aatccaaatt gttatgactt ttttctttga ttattaaatt cctattaata 180
 gtagtggttag ttcaattccc actgcctttt ttttaatggg actcttttaa aaccggtttc 240
 ttgtcatttt cataagtttt taaacaaaga attgcatggg tctttcaata atgtaaatta 300
 gttttactca tttcgactc aattaattat tttttaccta ttttttattc 350

<210> 20506
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20506

tatgcacaga cagaatgata tgtagaagga ggtactaggt atcaaacaca cgggttccat 60
 gctcaactag cagaaaatgt ggagcaaaca gcaagcttgc ttttaagggtg gtgcacgtat 120
 gaagaatagt ggcgtgaaag ggagcaaacc tggattgtga aaatggaata caaattgcag 180
 aattgttaat gatttctaga atattccctt tacacaaaat gacaaattcc gttattaggg 240
 aactgggtata aataaaagca tttgtaaacc attgagggggc atgaatgaat gaaatagcag 300
 atttcttccc ttagctttct tcttctcttc tttctcttgg aggtgttgac cctcgaagtt 360
 cagctagctt ttccctgcac gtnacacata attacagtan aaatgaagag taatgcatca 420
 ttaaggattg a 431

<210> 20507
 <211> 318
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20507

agcttangct attggaggga gaataaaaca atccaaaatc aatcgtacct ttcaagtnac 60
 gcaaaattct ttttgcggct tttagatgac gagaggtcag agcctccata aagcgacaca 120
 caatctccca ccgtattata gaatatcggg ccttgtattg gttagatacc ttaaactccc 180
 cacaagactc ttgaagatca tggagtctac cttctctcct tcatcagact ttgataactt 240

caagccacct tccataggtg tgttcacggg attgcactca agcatattaa atgtcttcaa 300
cacttcttgt gtgtacct 318

<210> 20508
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20508

ntagcacaag cganacatca gttcttnttg gagaatatat taatgcacga gctngaatta 60
agaggaggtg ttgcaatata attcaacgct ctaaagtcc acgtattaag ctaggaataa 120
atcatcattt ggttgcttga actgtaagaa gatttgggtca agtctgttgc tagattttag 180
ctatattgta cgtgaacatg tgcgtcagtt tgagtcagtt ttatgccact tccttaggtg 240
atgttagtcg tggaaagtgg agtcagttat caagttactt gagtctatct aagcattggt 300
atgtactgaa gtctattaga gagaagaacg ttgatttcct cattgatgtg gctctcaaga 360
ttgatatctt atccctctaa ttgtacatat aacagacagg ctaaaacata cgttttatgc 420
attgaaatgt aattaaa 437

<210> 20509
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20509

agcttttgtc cacaagaaaa ccacttgaat ccgttcaaag gttcaacgcc ttaaacgggc 60
tttttacttt taaacgatta aaatgaacct ttagaagtct aaaatcaaac ttatgtgtaa 120
ttttctttca tcaaagaact atgtaggtct gagtttctca tcgcaattga ggatacatag 180
gagcaagagc cccgctattg tcgaccccca aaagataaaa aacataaaaa atggaaaata 240
aaagaaactt ggtgtcatga ttttgcacac ttgattaaac gctgntgtcc cttgtgacgg 300
acgcgtgggg tgctaatacc ttcccatgt ataaaaaact cttgaacctt tatttct 357

<210> 20510
<211> 440

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20510

tgtccttgggt ttagacatga ttggtacatg atttgggact ttaggattc aatttgggca 60
 aaattggatg agggaaagag tgggttttcga aatctgcaact ttatgcagaa ttttgcgtgtt 120
 gaaatgtgca gcaaaatttt gtataagtgc agaaaaaagc ttgtgtatgg ctggttgtaa 180
 aaagggtatt acatatgggg ttctggaaat tttctaagag atcccaacgg tcaaaatgta 240
 gacttatgta ctagagactt ccagtaagat tttcgagtcg atccaacggt taacgaattc 300
 gaacgaagga aatgttactg gggatattgt atgtgaaaag ctgtgattnt gggttgtgtt 360
 ttgggcagag ttttctgcct ttgccctgtn ttgcttgggt ttgttagtcc atgatgattg 420
 gatgtggaat taatnggatg 440

<210> 20511
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20511

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 ttctgtttac tcatgatcaa attaatTTAA ttgttgaaat attttataat ttacaacaat 120
 aagtatctta acattttcag acaccaaatt tgatattata tattaagggt agttcaaaat 180
 tgtagaaact tcagcaaaat tttgaattaa tattctccca tttcatgttt atccacatag 240
 tttctaacta ataataagct taataacata tgcataaatg ttgaacaatt aaaatgctaa 300
 aaataacatg atttatgttt ttaatatcaa tggctnggag ttcttgattt ctaacaacga 360
 atagagaata gcactacagc aagcacactg aaggaagagt attcataagg tgcaacatca 420
 gtataaaatg ggatagaagt gataaaccac catca 455

<210> 20512
 <211> 396
 <212> DNA
 <213> Glycine max
 <400> 20512

agcttattcc tctcttgatg tgtggattag tgttgagaaa acctttcgaa tcgtatatat 60
gccttgatg agtgtgtctc tcttgatgtg taggcacatg actacttaac tcccttcttt 120
tgtatgtagt catgaatgta gttgggtaag tttgtgattc cttaatacat ccttattgat 180
tgggtaattc ttacttctta tatgtacgtt atatacttgg tataagaacc ttataattct 240
atgtatgcta gtagtatagt gttctgcctt aattgcatag atattatggg tgttgatgatt 300
tccttggttg agcgatgtta attcttatag ttcatgacat gtataagata gattcataag 360
aatactccgt gaccgacctt cagtctagta caccca 396

<210> 20513
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20513

tgtgngccct tttgttttag aatatgttat gctgaagttt gtaatagttg gttgattata 60
agattcctga tatttttatt ttattttatt ttggcggtcc attttacaag acttttcttt 120
ttcaattggc gtttataatt atacgacgag acaatagaga tgttgatgac tgttgatata 180
atttggaata caaggagtgt ttattcataa acaacttacc taaatcaatc aagaaaaatt 240
gagtcggatt cgaattaagg tttgatgaga tcaaaactga accatagact cgatatatta 300
accgatgaac acgatcttcc ttttatgttg ataatgtgtt ggaacatcca tgaggatata 360
aatgcctctn gaattgttac cgtttgacac cctataagta atataaanatc tatatggggt 420
attacttggg atttgattaa tataaaat 448

<210> 20514
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20514

agcttcacat gataatctcc tttgtcttcc tttgtttgcc ttctaaggca agagaaaaag 60
gtcaataaag cattcaatgc atcatttaat ctcttcgcc aactgggtcat ttggacaaga 120
ttaagcatct ttcttttctc tctttcttgt acaccaaatac ttgtggcaga tcgaggacat 180

gtttcctttg tgtagaaaa gatattgata ttctttcttg ttcacatgca tgtcttttga 240
gaggtagtan gtgatacttt tcattgtcct ttctgtctgc tctttctcat gaagatccca 300
agaatataac atattgtata cntataaat aatcctgcat ttagcataga atatgtnta 360
aacttaagtn tggtaaataa tgatatataa t 391

<210> 20515
<211> 455
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20515

tatcgtaatt tattacacca attattttga ggcaatgatt gattctttca ggagtctcta 60
ctattatcaa ttacgaggtg atatgatcga ttacttctct tttaaaagtg tttcagaagt 120
gattaagaac actttaattg attacatcaa gaatctaata gatttcattg ttcttgatag 180
ctttgcagtt tttgggaaga atactttatt caattgaaat gataatataa ttgatcacat 240
tgtatattta attgattaaa gatgggtata actgttttct ctataaatag ccaccttggtg 300
ttctcacttc taataagttc taacaacttt tgaatgagct agaattacga gctgataata 360
atgatacaaa aaaaaagaag aanaagtgct tagaaatatt gtgaatcata acttctaata 420
ttggattatg aagatcagat tatngaaaat aagtt 455

<210> 20516
<211> 408
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20516

agcttatatg ccattcggaa taagggctcg tgtctgtgtt ggacaacact tagccatgac 60
agaactgaag gtgattttgt ctctcattct gttgaagttt cacttctctc tctcattaag 120
ttactgccat tcacctgcct tccgtttggt tatagaacct ggccaggag ttgttcttaa 180
gatgacaaga atttaagcaa caatgtaaca gatgaatgat gaaaacatgc aggtaatggg 240
atggttgata tagtcataag acatcatttc tctagctgat gaaatgctaa taagtttttt 300
ttttatccaa attagataat aatatttttt ttttatgaaa ggaagatatt ctcatacttc 360

gaagttatga gacgaagatg atcaannatt atcatttgat gaaatttt

408

<210> 20517

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20517

cttctccacc acgttgaaga ccgngacatc tctctttttc ttttccatcg ccaccttacc 60
taggtacgtt ttggcaaagc tttggtgttc tattgaatac ttangtcaac ttggggaact 120
catggttaac ccaaggacct tttttggttt ctactgcaag gaatggggaa cttgtaatga 180
cctgaggtac gtttgttgtc gtggtcactg gtgctgaaag gctctcattn tgattgaggc 240
aagtcgtgct cactttgtag ttctttgaat gcttaatgtc tgttgtanaa ctanggtagc 300
atagtgtagt gtagtgtagt gttcttcatt ntgtttgagg tagcgtagtt aacttgtagt 360
ttcattctgt ntcattgtaca ttgttacaaa cctgcattta cggannaata gttaacttgt 420
atgaactntc ttctttntct atacatgtct 450

<210> 20518

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20518

agcttgtagt atngatggct gaggggaagc gggcgcaaga tntcgtgtgt gggttggcgc 60
cgaggattaa gagggttgca gagcgcgctg atgagcgagc gcgtaagatg aagaagcatc 120
atggcgtaa gttcagttgg attttcaata aagaattgct tttgtgaaat ttcagttaag 180
acttaagaga taagagatag aggtcaacgt gagtcaacag gtttttggtc ttgtgactat 240
tttgagtctt gtttgtacgt ggcattntga gtacgaataa tgaacaatnt aacatggatt 300
gcgtgtaatg gacattgttg gatccatggt tgttgttctg gtggatacaa aaccagtagg 360
aactttttgt tgaacggt 378

<210> 20519

<211> 443

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20519

taagctcctt caactgcaca aggtctcttaa tatcttaaga gtatccttgc tgaaccttca 60
cccgcagaag aactgacan aaacttatct tctccttctt ggacaaagta tggcatgctg 120
ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgatcgt ataccatat 180
cagctagatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagcg 240
tccaatcac actgtcacia acatttttct ccacatgcat aacatcaata caatgtctaa 300
cgtcaatatc acaccagtac ggaagatcaa agaaaatgga tcttttcttc atatgcaact 360
ctgactttta tcctttctttt gggctctccc aaatatagta ttcattgtgtt gaacccgctc 420
atataccttc tcaccagtca atg 443

<210> 20520
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20520

agctttctcaa cctgtccaat aagcaaactt tcatatccag agatgtaaaa ttctttgaga 60
atatattccc tttcaaaaaa ccagcaatcc aacaacagtg acagagagtt atttcacccc 120
tatgccaccc ctaatctcat cacctccaat aactcagatg acacatatat cacatccatc 180
acagacacac cacaacatac tccttaacct gctcagttag atcctactac aaccatagaa 240
cctgatattc ctattgaaga acccttacia aggtctacia gagttcanac actccaagat 300
atctcaactga ttatcactgc tacaatgtga ccaacacana taaagtcacc taccctatac 360
aacatcattt agacta 376

<210> 20521
<211> 451
<212> DNA
<213> Glycine max

<400> 20521

tcttccggaa gacaatggaa ttcttccgga agaataattct tccggaaaca ttccggatga 60

cgttcttccg gaagttgtct gtgagtactt ccggaagaca caaattattc ttccggaaga 120
agattcttcc ggaaactttc cgaaaaaatt atttccggaa cttttctggg agaaccttct 180
tccggaagaa taattgctga agggcagttt cggcacttca ctgtttgctg ggtgccccag 240
caataatgct ggggtgcacgt agcaactccc tactttgttc tgtcaattgg taatacattc 300
tctattcttt tctgtttctca caacgggtcg tggacttctt ctgctggctg ttgtgtgtcc 360
taagtccgta ttctgtttta cagcctaccc ttttggttca tcctattcct tgggttttgt 420
tctaataagg ttttctttgg gttaatacaa t 451

<210> 20522
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20522

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tattaccggy attatcatac acaatctcaa aggttttttg ttggacgttc ccaaataagg 120
ttatttgact atcatcttta ttgtgaataa atgccaaaca agactgttta tcatcgaact 180
catagagtac ccctggcggy tgtaagtcca ctgtgacgcc aggaaagacg aatgacattt 240
caggaatngg ataatagat ccagtaagat cataacacgt gtcaaataca ttgtgcgagg 300
nggcagtggg atagttggac aaacgctgct gaaataactga acgga 345

<210> 20523
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20523

agcttggtga tgctcttaac taaataattg cttattatgc atgcagtcag ctcttctctc 60
gcagcagatt gcttggtgtg gaatggatgc tgtgctgctg tactgggatg atatgctttt 120
aatgatgagt cctgagggag agccagttca ctacctttt gatgaaccaa taattcttat 180
acctgagtgt gatggagtaa ggatattgtc caatactaca atggaatttc tacagcgggt 240
gcctgattcc accgtttcaa tcttcacaat tggaagtaca tcacctgctg ctttactata 300

tgatgccttg gatcattntg atagacgaag tgccaaggta ga

342

<210> 20524

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20524

tgttcatcca cctactacta tcgtacaagg cacaaccact ctttgttgtg gtagtcatta 60
cactcaacgc ttggccctc taccactata gattgtcttt atttttcata agtgtgactc 120
ttgatctagt ttcaatttct ccatgattaa aggcatcttct ttatgttatt gttgtttctt 180
tcattttctt tgttgatagg cttcaaaaag gaacacaatg acctagtgtc ttgaccaggt 240
tgatcactgg tcagattttt aaaactatgg ttttaggttt tggtttgga taaaaggaga 300
aaatttctcc tattggatca tactcaaggg tactaaaga gttcacagga aagtctttcc 360
atcacaaaac aaggctataa catgcatatn ttaacctatt taatttatta agaccaatg 420
taaaactcat acccacatgt gctataatac ta 452

<210> 20525

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20525

agcttgtgga ctataccttc gaccgaacac ggccgtgttt ctgtctaggc ccagattcaa 60
ggcgggctgc agcaccggt ccgcttcctt aactgtactg gaggcggttg cgggtggctnt 120
atcctctatg gttctctgga gttttaacat gacctccgag atggaagcca tttgatcttt 180
caaggccgat agatcggcct tcactgttct ctgcacgccc ttttcattat ccatttttct 240
ggatcgagtg ttataggggt gccttggtgt tttcttagtt atgatgaaac tcctaaagaa 300
ataaacaacg gtgagtatgc caccaaaaca tgagtatgca aatggatgat cggagcactt 360
ggatccaccc caagattntt agataacgta atgagt 396

<210> 20526

<211> 434

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20526

taactcatcc aaacatggca agttcaacat gctttcaact tatttcttca caaataacta 60
tcatgaagca gaaacctagc aaaactaccc atcatatctc ccaaaaccca ataccacga 120
aaatcaagtg agaaagaagt ctacccaaac ctgaaatttc gaggtccac acatagagat 180
gcgcttcatg actccgaaaa tgcctttctt tcgcgatttg gagcagaaat gggcaccaaa 240
ggttgagct ttaatggagt ttcaatggag gatgaagaag aagacaatgg caacgtgaga 300
gagagagaaa agagctttct gaaattttct ttggctgagt gaggagagag aaaacagctc 360
tctgggttaa aagaanagct ttttctctt tctattattn taatttaacg tatgccacat 420
gtctccattt gagt 434

<210> 20527
<211> 300
<212> DNA
<213> Glycine max

<400> 20527

agctttgttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgatcaa 60
cgtcgaagaa cgggtgaaat ctttgcgaca tttctcacgg aaaacgttac ggatacgttt 120
cggaagcgcc tcggcttaga gtttcttcac ggaacaatt tttccaagca cattcgatag 180
agaaagaagt gcctaatttg ctgactcctt ctttcttgcc ttctctccct atttatagca 240
caatagggga ggtggttgcc tgccagctcg cccaggcgag ctgagctcgc ccaggcgagc 300

<210> 20528
<211> 296
<212> DNA
<213> Glycine max

<400> 20528

tcatgatgaa tcaagattga ttcaaagagt tttgatgatt tcaaagatga tgacaaagag 60
ctcaatagtc aagagcactt catgataaaa aagatgatga tctcaagaat caaaaaatga 120
gttcacgatt gaatcaagaa cacttcaagg ttcaaagga aatttgattt ccagaatcaa 180

gaattaagtt tcaagattca agttccaaga atcaatatca agattcaaga atcaagagaa 240
gacttaatca agatacgtat taaatagctt cttcaaaaac tgagtagcac atgaat 296

<210> 20529
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20529

agcttcttat ccaaagctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
atggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catgggtggaa 120
aatcactatt aaaggacctc attgaagctc anagatccaa cctccataga aacccacaa 180
gcaagctttc atcataacca ctctatttcc cctaccagag atatccaact tggtcactgc 240
acttcccatg tacatacaca acatacatca tcacaatgac attatcaaca tcaacaacat 300
ctcatctcaa tgtcattatc atcatcaaca tgatcccatc tcaatgtcat tctcaacatc 360
aacatcatct catctcaatg acattatcaa catcaacat 399

<210> 20530
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20530

tgcatgattc acattctccn cctttgtcaa gcanattctt tctgatatca tcaaaacctg 60
catgatttac acaattccca gtaatttata caagtttgta tgttcaagct gtcagcacca 120
gcgaattcaa cctagaaatc aagaatagtg gttatgttgc ttaaggcttg gatagttaca 180
atattgtgtt gcttatgctc aatgatcttg aataacaaaa ttcaagagaa cttaagactt 240
attntgattc acaaatccag ccacaactca gcaccacaac tcaacttcat cataggaatc 300
atgtaggaaa cttagaatac aaaaaaaga gttcaacaac aagactactt ctaggaatcg 360
atttagaaca tgtta 375

<210> 20531
<211> 410
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20531

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ttattgctat cattntcctt tccatcattg ggggcactac ttgagatacc agaacccttc 120
acccttgggc atatactttg aaagattcat gctctctctt acacatgttc tatagctnca 180
ttctatccaa aaccatatca gaattgtact aatattgcct atcgaaggca accataaggt 240
ccttccagga atggaccccg gaagattcca gaataatata ccatgtgatg gctgccaat 300
aagactttcc tacaagatat gcatcaacaa ttttcatctt ttgcgtatgc ccccattttc 360
ctacaataca tctatacgtg attcttgagg ccagaatccc tttgtactta 410

<210> 20532

<211> 458

<212> DNA

<213> Glycine max

<400> 20532

tcagtgtcac aagtttccga ccacgaccat ggtggagtgc aacacaattg tagtgtgttt 60
tctggctgat atcttttagga agctataaat aggggttggt ttctgtatct ttgaaatctt 120
ttacctaatt acgaatttaa gagttttgaa gcgtggatac caccatgagg atgaattatg 180
gtcatcattc ctaccttgcc ggtatgtcta tgctaatttc atatatgttt ttgagttgtg 240
ctttgatcat gagcgaccag tcaccatagt ccaagggtta tgatgtaact atccaatggg 300
atccctttct ctgtttctaa tgaaattcct caatctttta tgttaactaa ttctcttctt 360
tattcttatt gtttaattgc gaattagtca atcctaagct taattgaatg tattgtgggtg 420
atgatcttgt atgtcgcgta gacctatgta gagaatgt 458

<210> 20533

<211> 279

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20533

cgcgatatgc gaggatgata ttccgagtag tttggatttg gtacgaccat gccctcttga 60

ttccactggg aaattggcga gtggaggaac gccccgcgcat ttacgcaacg agcataatgt 120
aaacctttac gagtttaaaa gctctatagt tgggcctagg ctttagaggt nttccttttg 180
taaggctttg tgtcttttgt ctttgaattt ataatacaaa gatctntctt catctgttcc 240
tggtctctac ccattctcat tcatttgcgcat gggtacttc 279

<210> 20534
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20534

tctanactnt gtacaagaat gaagctctga taccacttgt tagtctagtg gcctcagata 60
tcttaagaag ggggggttga attaagatat tccaaacttt tctcctaatt aaaaatctat 120
cttacttttt acttaagtta tgaattccct taatgacaat cttcttaaatt attaattcaa 180
atgaagcaac ttgaattatg aatataaagc aataataaat aaaggagatt aagggaagag 240
aaaatgcaaa ctcaagtttta tactgggttcg gccacaccct tgtgcctaag tccagtcgcc 300
aagcaaccgg cttgagagtt ccactaactt gttaaattcct tttacaagtt ctaaacacac 360
aangacaacc cttcctttgt gtttagagat tctntacaac aagagactca cagtctctta 420
atcccttaga gaatg 435

<210> 20535
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20535

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agcgtaattc cttacgacca taactaaggt cgataaagct aagcgccaat catggcagct 120
taacgaaatt cattgcggaa atatcagcgc taaagagaga acctctcact aagcgcatgc 180
tcctctgtat ttaagatgca tcaattaagc taagctggcc aaaaccaggc ttagcgagag 240
ttgcagcttt tctaactctgc aaaccttgct aagcggactt actcgcatgc taagccgagt 300
atctattcaa aaaaataaaa ataaaatata tttgaattga aacgtcagct aagcgcatgt 360

tcgcta

366

<210> 20536
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20536

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acctaaatta gtgttaccta tgagctgcc aatttgatat tatcccagtt tccgaagctg 120
nttgttccat acctcctctg tgattgttca gcatgatgag aatttgcaag gcttgtctaa 180
tcatgaccac acttgaatgt aatctccatt atccttctaa tggcttttga caagtctaac 240
cgctgctgag gggtgctttc agtgcaagca gcaccaatgt ggaggaagtg ctccatctca 300
gcaagccaat tcctagagcc tgcaatttta ggatcaagca cttctgattc ctttcctca 360
gagattgcag ttttcaccca ttgcaccaca tcagccctac cttttccatt gctgacatac 420
tgagaaagga acctcgctgc aatatctcaa tatgac 456

<210> 20537
<211> 384
<212> DNA
<213> Glycine max

<400> 20537

agctttatac taaatatttt aactaaaatg ctgaatctta caaattctag cttcatctaa 60
tcatcattaa aagttaatca gtggtgcaac tagctacccc ctgttaaaat aattgaccat 120
gtgtatatgt tctatgtgtc ctagtatacc aaacaacagg aatggtgaaa atggatataa 180
gagcattcct ctattgcata agagcattga ctgcagtcta tgacaatgac tttccctttg 240
aagctataag aatttggagc ttttcaagat caaagttggg tagtgcattg agcgcagcct 300
gtggcaatga atttcccttt caagaattca tgtgcaaata ttgataacac ataacctatg 360
caccctacca tttagttaca atga 384

<210> 20538
<211> 390
<212> DNA
<213> Glycine max

<400> 20538

gttactccca tcctcgaaag tagcagagag gaggagccac aagaagacgt tcatggactt 60
cgccaaaaca acgatcacag cagagccctc catggagaaa ctgcaaagaa aagaaaggga 120
acgatatcca acctgattct gaaacagagg aagagcgctg gagagggaga agtagtaagc 180
ggagaaaacc acgcgtcagt gggaaacagg aagagttgga cttctcatcg actaaatata 240
tataagaaag acgaaacaca gtctctacct aacaaaaatc aaggaagcag ccaagaaacg 300
acggcactcc aaagatagaa atcagaacca taaagaaaag ctggccatgt cacggaccga 360
actataggaa tacctgcaaa tggccaacc 390

<210> 20539

<211> 427

<212> DNA

<213> Glycine max

<400> 20539

ttgcggattt ggacttcgcc ggcagaagga tcaattcgtt cttaaaagag gcaaatttaa 60
tgatggcact tgtacgaatg ataaaactgg tgcatatgaa gagggtgaaa ataaaggaga 120
aaccatgct gcgactgtca ttctacatg gccaaacttc ccaccaaccc aacaatgtca 180
ttactcagcc aataacaaac cttctcctta ccaccaccc agttatccat aaaggccatc 240
cctaaatcaa ccacaaagcc tgtctaccgc acttccaatg acgaacacca ccgttagcaa 300
aaccaaaaac accaaccaag aaatgaattt tgcagcgaga aagcctgtat aattcacccc 360
aattacagtg acctatgctg acttgcctcc atatctactt gataattcaa tgggagccat 420
aacccta 427

<210> 20540

<211> 499

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20540

cgagctgcc a ttgatgcatt gttgangcct tggacacnt tgaggcgtct acgaccgaat 60
gccgctcgga tcctggagat cctatccagc agttctgcaa gcttggtggc ttttacaagc 120

tggactcaat ctcgtatcgt tgatgtcatt gggagtgtcc tgtgaactgg attcctacta 180
 ccaccgcgat aaccgtgata taaaatcaca aggaggagtc gattcctact cccgtgtcaa 240
 accactggag aaatgcactt actatgtgat agttatcgca cggaccatcg ggattgcatg 300
 ctgggtgttt cttcctacca tttccttgat gggctatatg ggtccctgca actcactggt 360
 gcacttgggg atagagccag tcttgcctta cttgcaccga tgacacttat tatatgcgat 420
 gacgcgatct tgccgagcat taccaatatt actctaactt gtaaaagaca ttaagatccg 480
 cgaagtaata aatacattn 499

<210> 20541
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20541

tcanatgtca atagcaaagt actgattttg tcaaattagt tatttatatc tgccgcatga 60
 gaacaattaa taatttccat tntttttgtc tctagtgata ctgattactt actgtgtgta 120
 atataaatta tgtaaaatta agtctatgta aaattacgat attattaata tttttaggac 180
 attaattaca aaattaaaaa aatatattta ttatgaaaat tataggaaag tataaaaaag 240
 ttataaacag cataatttat gcatttttaaat aaaaatattt atttttttta tttctgtaacc 300
 aatgtccttg aaggaattga ttagtatcgg cttaaaatca agttagtaaa cactcatcta 360
 aacacattat caacttttct tgatgataaa agtctatttt ggatgtgaat 410

<210> 20542
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 20542

tgttgcaagc ttgttattgg ttactctaaa ttatcatttc attaccgtac ataaagtaaa 60
 catattttaat aaaaacgtgt taaataaaat cttcatatat tgtaagcggt tgagacaacc 120
 agtagttgca atattttaaaa ggatattgaa tcttatttga tattagttaa ataaataagc 180
 tttacaatga gcttattaag ttaacattca tcatacataa atgttattag aataacttaa 240
 aattataaaa agtgtattaa tcagatttat aagattaatc aaacatgtgc cattttcaac 300

gcgagtgcta aaatatatga tggaaaatgg atcctcttca agtctccatg ttctacctct 360
gcaacagga 369

<210> 20543
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20543

ntctctctta tataatggaa tttgcaagac aatgactgct ttttcaaggt ntgaatagca 60
ttccgtggac aagtaaggat aaaaatttaa atcatcanat tcaacattgc ttgatagagg 120
tttgtcttga agtttatttt taaccgcacg gttctcatgc aaccccaaag tttcctcctt 180
cgatccaaca tggaaagctt tcggagtttt ggaaccatct agttcactca aagactnttt 240
ttcgcacgaa acactctgcc ttgatttgtt aaaatcatac aacacaaatt ctgtcaccat 300
agagttgtca aattctttgt cttctagttc agaacataaa ttacaggata ctagcatctg 360
tgctactatt gagggatctt tatcaaaatc atgggatccc aaccattga cattgctctt 420
ct 422

<210> 20544
<211> 338
<212> DNA
<213> Glycine max
<400> 20544

ggcaattcac tcgtcccggg atctctaagc acctgcatgc tgcacttttc aatatgatga 60
ggagttagta ttgcaacata aaaatgaacg attaaataga tatagtagaa aacctcaagt 120
cacatgtatg gtcataaggag cataatattc tagagagcaa actatttttg gaaacaaaac 180
taacctaaag ttatttccac ataaccgaaa taaatggagg attgtgaacc agaaaaacat 240
attggaaaat tggttacttg gtaaattccac cttatatata agcctaattg atgctgatac 300
cactattgac catactattt gccatgttca atatattg 338

<210> 20545
<211> 399
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20545

ccctcgaaga ggatgctnta atggaggaaa agaaagagag aagtgggagc acgaaattga 60
aggaataaaa gagggagaga agtgggaactt tgaagtgtgt ctcataagac tttcattcat 120
caaagttaca acaagtgtta cacatgcttc tatttataga ctacgtagct tccttgagaa 180
gctntcttaa gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagctaga 240
gcttagctac atacacccat ctaaaaacta agctcacctc cttgagaagc ttccttgaga 300
agctagagct tagctacaca caccatcta aaaactaagc tcacctcctt gacaaaatac 360
atgaaaatac gaaaaaaagt ccctactaca tagactact 399

<210> 20546

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20546

agcttctcct tccttttcct ataaataggg gaaggaggga agaacaaaaa tgttcaaccc 60
tcctagtatc tgagattcac ttaaaattag tgagaaaaat tgtttccgtg aagaaaatcc 120
aagccgaggc acttccgtaa cgcttctgtg acgtttccgt gggtgatttt gcaaagattt 180
tcaaccgttc ttcgtcgttc ttcattcggt ctttgcgtt cttcgggtgtt caaccggtaa 240
gttcctgaaa tcgaactttt caattcattc tatgtaccct tagtggtcct cattgggttc 300
gtgtgctttn tatttcattt catttacttt ccatacgccc ttttgacgtg ctttagtcat 360
ttatttaagt cattttctcg cctaataaca aataaagtaa att 403

<210> 20547

<211> 383

<212> DNA

<213> Glycine max

<400> 20547

acatacacag ccacacaccc acacacacac agagagaaac acacacacac actgaaacac 60
acacgcacac acagaaacac acacgcacac acagacacag gcacagaccc acacacacac 120

acacacagaa acacgtacag acagcgagac acgcgcacac agaaacacac acgcacacgc 180
 actgactgaa cacacacaca cacacacaga gaaacacaca cacacacaca ctgagcgaaa 240
 cacacacacg caggaacaca cacacacgca aactgactga aacacacaca cacacgcaca 300
 cacacacagg aacacactga cggaaacacg cacacacaca ctgaccgaaa cacaacact 360
 cgcacacaca cagaaacaca cac 383

<210> 20548
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 20548

agcttttaca agctggaatc attcatccta tctctgacag ccaatgggtg agtcctgttc 60
 aagtagtccc gaagaaaacc agcctaaccg tgataaaaaa ttacaatgag gaggttgattc 120
 ctactcgggt gcagaacagt tggagagtct gcatcgacta tatgaggctg aaccaaggta 180
 ccaactataa cgcttggaac gtaaatctca ctactatttc cttgatggct tatctgggta 240
 tatgcaaatc actattgctc atgaggataa agaaaatacc acattcacct gcccttcgg 300
 cactctttcc tatatgatga tgcctttcag cctgtgcaat gcccttatta ccttctaact 360
 gtgcatga 368

<210> 20549
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20549

ntacttctac aattgtaagt cacttgcaat taatatcttt aattatntat gtttattggg 60
 tggttgactg aacaaataaa tgtgttctgt ataggattca ttggaagagc aagcgtcaca 120
 gggttccttt gtcccccatg gacgtcagga tatctggact gctgccattg ggcgaccaga 180
 acaccctggc cgtgtgcgta ctgttggaac cagtgtgaca atcaagtaat actttggaat 240
 agtccacga acctcctaaa cttcttcctt tatggctccc aaagaactag agcagttgac 300
 tcaacagatc agggactagt tggaggagtt gatcacagan naagtgactc aacagctgat 360
 gttatccttc agtcagatgc agtcccagct tcagtcatag atgcaatcac a 411

<210> 20550
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20550

agcttttttac aacttggtgt aatcaattac cacaactctg taatcgatta aaacaaagag 60
 ttgttgccctc tgaagaaatt nttctaactt agaaactttt tcttcacaca aaccatgatg 120
 atgcatgatg tctgatgcaa tgcaaataac aaatgtacta agatgtcaca accaagttaa 180
 caaccaatac aaatgccact caagggagtt gggcatgtaa aagccaaaac ttcttcaaaa 240
 cttgttcaaa cttttccttg agcttcagct ntagccttta agttgtcacc atgttgctcc 300
 ccttatctct aacaatagtt tgtcataatt aaaaccaacg atgtggattt cataatgtta 360
 acccaciaat ttagagaact agagtagtag tctc 394

<210> 20551
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20551

ttctaaagtt ntatggtttt ctaaacccttg aaaattgtgc tattcatctt ttcattcact 60
 tctccctttg ccaaaaagaa ttcgccaagg actaaccacc tgaattcttt ttgtgtctct 120
 cttctccctt ttccaaaaaa acaaaggact aactgcctga attcttttgt gtctcccttc 180
 ttccttgtca agaattcaa aatgacacag tctgagaatt cttttgattc tccctttcc 240
 catatacaaa agtgttcaaa ggactaaccg cctgagaatt ctntgtatc cccattcaca 300
 aagtatcaaa ggtttaaccg cctgagatct ttgtcttaac acattgaagg gtacatcctt 360
 tgttgtacaa agagagggtg catctactt 389

<210> 20552
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 20552

agcttcttca tcagaccact tccagtgtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgctgtg gatgatttct 120
ccagattttac ctgggtcaac tttatcagag aaaaatcaga cacctttgaa gtattcaagg 180
agttgagtct aagacttcta agagaaaaag actgtgtcct caagagaatc aggagtgacc 240
atggcagata gtttgaaaac agcagggtta ctgaattctg cacatctgaa ggcatactc 300
atgagttctc tgcagccatt acaccacaac agaatggcat agttgagagg 350

<210> 20553
<211> 425
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20553

tggactatat cccaccatat gataccttgt gcatgtaatc tatgattcgc tatctatccg 60
tacaataatg tcgttcacac aaatatggga gctatggaaa gatattcact tagtatatga 120
caaacaatta atccatttat tttgaaactt ccacggcacc aggagatgag atttgaaaat 180
ttgtgccaat gacaatgagt cacctttcaa ccataattga tccggacctt tgccttgtgc 240
tatttcaata gctaaaaatc caacttgcaa ctacagcatga aaggcaattg aaatatccaa 300
agagtgagag aaacaaccca aaatagcacc cctagaatta cgaataattc cccactagc 360
tgaaggcccc agacaancta ttgttgacc atcaatgttg cacttaatcc atcccatttg 420
agtag 425

<210> 20554
<211> 409
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20554

agcttgtatg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
gcacaacaag ttttcacat ccgcaaatcg cgcataaacc caccattccc ttgtgcccac 120
ctccaactga gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180
cccatcaat cttccaagc ttccccaaca tccaggtaat tcaacatcca aatcatcaca 240

aactaacaaa ccaaggcaaa cagggcagaag gaagaaaact cttgccaaaa ctcaaaccaa 300
aatcatagct ttttctcact taaagacccc agtaacattt ctttcgttcc aatttcgtaa 360
cccgtggatc gactcanaaa gttactggaa gctctatata taacctaca 409

<210> 20555
<211> 441
<212> DNA
<213> Glycine max

<400> 20555

tgagaacata gcttcaaaac agtaacatct ccacgcttca taacatcagc acgataagcg 60
tagaaacttg gtgacaactt ttgcataaa agccaaatac ttttactgtt tttttttctt 120
tttgctgttt gaatctgttg aaattttttc tatcaacagt attcaaaact tactcatgtc 180
tactgcaaaa aatgtttctc gcaagctgtt tgctcgaaaa ccccaaaaga ctggccgaaa 240
atgtgttgca agctcttaat gaaatggatc acataaccgt accaacacaa caaattcctc 300
tatcaacgca tcattttcca cagccactgg acaatgtcaa tattgtcatc ggtcataggg 360
aaggatgcgg acttcattga cgaagaaggc aacacgacgc ttgggagttc caccgcctcc 420
ggetcaaccc tgtggtgaaa c 441

<210> 20556
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20556

agcttatgga tggaatactt acttggttgt gatgaacaaa agcgcaaaac ggaatcaaaa 60
atgcgaaaaa ggatgaccct agggctgcaa attcgtcaat cccgtgggta tggcttttga 120
aagcggngaa aagaggtttt tgaatgtaaa aacgcccccc ctttcgtcat tnttataatt 180
tggtgcaggg gtggcttcgc ccagcgagcc cagctcgccc aggcgagcta acctgcactt 240
gnntgttntt gcttactcgt gttgttgatt tgggaggaaa ttaaccattt cccctccctt 300
ctcatgaaat aacatttcgc ctaacttgga cttactta 338

<210> 20557

<211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20557

aataactaagc ttctatccag gctcatcttg gtggtgaagc tccttcttcc attgtttatt 60
 ccctagtggg tggcacctcc tctcacctct tctcctttgt cttccgctgc atctccatgg 120
 tggaaaatca ccattaaagg acctcattga agctcaaaga tocagcctcc atagaagccc 180
 cacaagcaag cttccattaa gtgataatca gagcacaaga gcttcaagta ggtgctcctt 240
 aaacctccat taatttttgg ctttaccttc tcttccattg ttgtttcttc attnttcttc 300
 catgtatctc ctcacatgtc ttgtgctaaa tgttgtaaac atgattctnt agagtttcca 360
 ccgattaaac ttgctataga agctagaatt gattntctat ggttcaaatt tcttgttctt 420
 gttcttgaac catg 434

<210> 20558
 <211> 358
 <212> DNA
 <213> Glycine max
 <400> 20558

agctttatgt tgctcattga ctccagattg ctacaaagaa ggacatagat ctgtatgggtg 60
 atctgcagaa gaacatagac cacagactct tgccacaggt gcatatttct gattcatggc 120
 aagctgagtt actaggttaa ccaaggcatc aagtttttcc tcaagcttta tattctcagc 180
 agatgaagat gaatccatgg ccacctcatg gactcctcta aagacaatag catcatttct 240
 tgcactgaat tgtgaggtt ggaaccatct tctcatcaaa ttcttacctc agcggagtcg 300
 tatcaccaaa gtcctccatt gaagcatcat catactctct ccatgtacta agccctat 358

<210> 20559
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20559

ccacagcaac acanaatcta ggtgtccaaa tctcttcaat tcaatggctt ttctaggtgt 60

gagaggtgaa atntagaatg aggtaaatth gaagcanact ctcacctcac acaagtccat 120
 aacatcaatc taaacttgct caaactgaat ttacaccaa aattccacca aatcaaaatt 180
 tgactcttca acaccaatt ttgccctaga aatggctctt ggttcacttt ggtcatttgt 240
 ttttctctct agctcagcct aacctttctc acatgtccta gatgacattt caagctagta 300
 ttaactcact ttaacctcca ttaccacaa aattcagact tagccttcca actctcagag 360
 tctcaccctg tctccactca taacatcaca ttctcactgt ctaaccctag gttagttcta 420
 cccttcatct ctaacgagtt tccatcagca at 452

<210> 20560
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 20560
 taggaccacg acacggcaga tcgcggggta ccttacttta tttctgcaaa tattggggtt 60
 gtaagatggt acattggatt atgatgcaca catgttctta tgtcatgtta acccagacca 120
 tgatgactat atgcagccag acattctaga ggttctagtg gcatttgatc cccctcgaca 180
 tgcagtggta agattatttg tgtatcta atgttcgatgaa ttgctatcta ttctaaatat 240
 tgtaataaat gtttcttatg actgtcacat gatgattaca aaggctatga ggcgatcgca 300
 gatagggttg agtgtgtgct caatcttatg atggtcactg caaggacatg attacatgat 360
 atcttgcatt attgcctgat gatcgctagg 390

<210> 20561
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20561

agcttttagat caaggtaa at caaaatctag gtatccaaaa cccatcaatn tagtggatnt 60
 tcaagggttta agaagtga at atgagaattg gataattctg gggtaaactc tcatttcaat 120
 caagtctata acattgattt agacttgctc aaactgggtt taagggtgaaa accccagccc 180
 ttcaaaattg gccctcaac acccaattta cctagaaat ggctcttttc tttcacactt 240
 gtcattcctt tttctcattt gctctacca agctttccta caagtcctaa ttgacattct 300

aaactangat caactcactn tagactccaa tntccactaa ccccaaattt ggcttttcan 360
acctcaaaa tctcacactg ttccactcat atcactacca ttc 403

<210> 20562
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20562

agctttgaaa cactcctntgc tactggtaat cgattacaat aaactggtaa ttgattacca 60
gagagtaaaa actcttttgggt aaaaggttnt gtgaaaaatt catgtgctac tcaatgtttt 120
gaaaaacttt tcagtactta tcttgattga gtcttttctt gattcttgaa tcttgagtct 180
taaatcttgt tcttgattat tcttgattct tgattcttga aaacttgaaa cttgaaattt 240
ctcttgttct tgactcaatc ttgaaatcat tctcatgggc tttgtgttta caatgtttta 300
ttaactatat ttagttttta ttntgaatat gtgtgattaa ttggattntg tttgaattga 360
ttaatgcttg aattgcttat gttttattga tattagattc tgttaaaaaa atatatctat 420
ataaaaaatg ttttgacatg ttaatata 448

<210> 20563
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20563

agcttttatag cagatttttag taatgaccca ctaacctaga attaaaataa cttaatgcca 60
ttaacctang gaattaaaaa aacttaatgg ctgagtgtaa ctgaaattgt ggcaaccaa 120
agtcaccccc aacagccaac aagtcagcca ctcatgggtc tcccaaaagg ctgatgccta 180
agttgccaat tgggccctta ttacaacttg aactaaacct aactaaagcc cttttagtgt 240
attaacccaa aacatatttt tggtcagcca actttacaag gattggggcca ttatttagac 300
aaactaaaca ctctaaaatt gaaacaaagt ggtgtcattt agtccttctc catttgggcc 360
atgatacaac tcacaacctt ggactttttc tcttgaactt 400

<210> 20564
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 20564

tctatataag ctgaaccatt ttatcaataa acacatgttg agttttattc agaaaattag 60
 aagttatcgc ttttatctta atgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
 accctggctg tatcaaaagg actttcacia cctttggggg gtggccttgc tggaaaaagt 180
 gattcttttc ttcctatcat ctccaccctt ggtctttcaa ccacaatttc agaaaatcca 240
 cctctgccaa aattatctcg tgacctaaact ccatttcaac actcaa 286

<210> 20565
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 20565

agcttgtaca ataatcgggtg agagtgtgat cttaaaactat gagtgaacga ctagctttga 60
 gtaatagtct ttgcatcaat ctctgaattt tagaatgaaa tgtatgaatg aggacatgat 120
 gaaggccatg atttgtgtata tacaagtcaa ttgacccaaa agcttacctt gaattataat 180
 tgtatccttt gcaccctttg tgagctaaat tacattttca aaattgaacc ctgaacttga 240
 atgaatatct ccagatacct tgtttagatt ctacgagagc agatagttca aggaaaaata 300
 ccc 303

<210> 20566
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20566

ntgtgtaatt gattacactg atttggtaat tgatttccat tgattgtttc tgaataaatc 60
 aaaagatgta actcttcaaa tgggttttgg ctttttcaaa ttgggtttta gtttttctaa 120
 aagtcataac ttttctaaat ggttctcttg accaaacatg aagagtctat aaaagcaagg 180
 ctttgtttgg catttttcaa tcaatcaatc aatctatcta tctatccaat ctttgaatct 240

ctttgaactt cttcttcttc ttcattgtgc caaaaacttt ttccaaagtt ttctgggttt 300
 ctaaacccttg aaaacttgtc ctattcattg ttttcatcta ttcttccttt gccaaanaga 360
 attcgccaag gactaaccgc ctgaatTTTT ttgtgtctct ct 402

<210> 20567
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 20567

tgacaattcc tgtctcttct ttaaactcc aaattccaaa tacgaatcta ttttatcatc 60
 tcataccaag cacgaagaat cactctccac ttatcttget agactatcca cacgtgtggt 120
 aacatgtatc ctcaccatag atccacgttc tacacaagcc atgtgttgcg atgtatgtcc 180
 aaacacagca tgacgcatct ttcccttagt ccctaattta cagacactca cttttcttga 240
 ttaacaaaat actctacttt agtccggctt tattcaacat ttttctta 288

<210> 20568
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 20568

tgttgcacat agttatcaaa gtgogtgatg agtgtttcat attgagcttg agttctgttg 60
 tagcctgcat tgccaatgtg atctgatttc ttcccgatt gattgtgaac aacgagtaat 120
 gcagatgcat ggccggcgag ttccgtcaaa tggagcacgt aaatgcatat tggagagttc 180
 tttgttgggt tagaggcgtc aaggagggtta atcattgggtg gcacatttct agggctgtgg 240
 atgcacacca tgactctgaa ctctgtgtct gtttgagaca tttgaatata tcttcttttg 300
 taagggatga tcccctttga tgttttagtat atagctgata tcccatgtac agttatacca 360
 tcattagaat gttataatca ccattga 387

<210> 20569
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20569

taagctttat aagtatttaa gatctgctgg aattcgtgat tcctgcgaat tntattgtct 60
 ctcaaattga gcaaatecctt gttggactgt ntctgggaat atctctggga ttggtccaaa 120
 gaagtccac cattgcaaaa accaattgcg aaaattgtaa attgtattgg tcttgaaata 180
 tatcagccat gaatgcttga agcgggtatt ttggtgccaa aacaccttag tccaagcatc 240
 aacataatcc caataggtat aacctaccgg atcaaattgga actganaatc tctttccttt 300
 ngtcaagtcc gaaccacagt gtcttggttg aagaactttt agtatttgga ttgtggagtg 360
 ggt 363

<210> 20570
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20570

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 atggtcattg accaatccct attttttgac ttaacaaaat tgcctagtga aggtgtacct 120
 tttgaggggtg cactgattga tgaatggaaa tttgatttct ctatgcatga tgtatgccaa 180
 ttggttttga ccaaccaagc ggatatgacc ggaaggcttc ttgccgggttc attggctttt 240
 gaaagtcgca tcctccatta tcttatagtt cgcattttgc ttcctagatc ttcaaacttc 300
 gcctaggttt ctgaagaaga cctcattgtc atgtgggcct ttcataaagg tctacaaatt 360
 gattgggcac atcttggttag atatgcatg cataaggcat cgcgattgaa tgccccatta 420
 ccttatectc atct 434

<210> 20571
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20571

agctttcttc tttgcacact cattttgctc caaatcgcg aaggaagcca ttttcggagt 60
 cgtgaagcgc acctctacgt tgtgggactt caaatttcaa gtttgggttag acttctttct 120
 cacataattt cgtgggtatt ggggtgttgg gagatatgat gtgtagtttt actaggttta 180

tgccttatgg tagttatttg tgaaggaatt tgttgaaagc atgctaaact tgtcatgttt 240
 ggtatgagtc aagcttacct attctgtttt aagggtttat gatgatgctt tgtgatgttt 300
 gtgtgctaaa attgctgatg gaaaattgat agagatgaan ggtagagtta acctanggtt 360
 aaaaaagtga gaatgtagtg atatgagtgg gaaaatgtga tgc 403

<210> 20572
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20572

tcaagaaaaa gatggcctca gcaaattcct tatttccaga ttggtattct atcaatagac 60
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggcaataga tctaaatata tgggaagcca ttgaaatagg gccttatata cccaccacag 180
 tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaaccta 240
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctanaa gccaaaaaca 300
 taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgccta 360
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagatcta 420
 ggataaatgc actaactcat gagtatgaat tatttta 456

<210> 20573
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20573

agcttcctcg tggcttcttt gagaagcttt ctcaagaggc ttctttgaga agctagatcc 60
 ttatctatcc acaccctctt attaactaaa ttaacttctt taaaaataat tacggatgaa 120
 aataacgcaa caaatattca aacatcaaac ataattacta atagtatata gatatatata 180
 tatcaggggtg ttacaactct cccacccttt tagaaatttc gtctctgaaa tttaccttac 240
 tcaaacaagg atgggtgagc ttctcacatc tgactntcta attcccatgt ggcattcttct 300
 cctgatgcac ctccccagat caccttgacc aacagaatct ctttccctct taagtgtttt 360

ggttgccat cctcgatcct canatgcaat gtttcatatg tc

402

<210> 20574

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20574

caaagtaa at caacattcaa acagcacata ttactacagc caagaaaaca gggcaaaggc 60
agaatactct gcccaaaaaca ccaaccaaaa tcacagcttt tctcacttaa agaccccagt 120
aacaattcct tcgatccaat tcgttaaccg ttggatcgac tccaaaattt tactggaagt 180
ctatagtaca taagcctaca ttntgaccgt tgggatctac tagcaa acat ccagaactca 240
ttctgacta ctctttccac agccaaccac acacaagcat ttttctgcac aaagccaaaa 300
tcctgctgca cctattntga cagcaaaatt ctgcataagt gcagatttcg aaaatcaccc 360
ttcctctcat ccaatcttgc ccaaatcaaa tcctacaagt cccaaatcat gtatcaatca 420
tg 422

<210> 20575

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20575

cttgcaagct ttttccaaca ttcattagtc caatacacac tcaacaaata gtcacatcc 60
atccataatt ccgatcattc atgctcaata tgatgcatgc acctgacctc aactctcata 120
tgcaatgtgg taccatcctc aaagaaatag cctaaacgtg tccacacgac actcacactt 180
atgaaaacta ggcagtaagt gtcgagggtc cccctgtcgt gcataggcaa cgtccctccc 240
ctacggggat cagcctgagt ctcaagggag ttccaaactg agtgacatgt cccctaatac 300
aagtattcct cctcatgaga actacaagta cttactgaca ccatttatac tatttccatg 360
tcataataag gatgaaacat gngcaccatc 390

<210> 20576

<211> 454

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20576

tcgaattaaa agaggcatta atcttgccat tcgcgatgct tctgccagcg atccttatgt 60
cgttgtcaac atgggcgatc aggtttgaat cttgcaattt ctgagatcat ttttttttct 120
tctttgaagg taaatctgat gaactggggg tggttaatttg tgttgagaga tggtcgcaaa 180
taaaacaaat gggttttcta atcccactat ttattgaaca atttctacga gattttttgt 240
gggtataattg gttttgttaa tatatttctt ttggaaaaat atatttacac agacccttgt 300
cactcaagtt ttttgttcgc aggaaaaana ggatgtctgg ataaatatct ttattcgata 360
tatataaact gacataatta taatcattag acaagtgaat aatgtaccag tgacagtatg 420
tatgatataa attacttgct cccatgggtca ttgc 454

<210> 20577
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20577

agcttttacta atggatagta agaaccataa atacctagcc ccaccagtag gttacaaaat 60
atttataaag tataaacggt acctatttaa agcctatgaa gagagagagt cacacagttt 120
tcccatcaca aggtcatggt aaaactcaac atgaaaagat acattcccta agttgatttg 180
tgctctcttt taaactgact actaaattga gagggacttt taaattactg aactattctt 240
caattaacat taataaagga tccttggttn ctttgtagca gggtcctctt gctgctccgg 300
ttcttcaaca cctgacanaa gcagatttaa gcaagatgta ctttg 345

<210> 20578
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20578

tcaatcggca tactccacac aaagattntg atgggattat tatacagcat actccacaca 60

aacagattgt gaagacaaaa attgngcaag tttctgcaga tcgaatgtta tgagctgata 120
ggaccatttt atctggctta gtgagagagg tcttatacat tataccacaa ttntaaaaca 180
ataatcacag gaaatagtaa gttataatat aaaaagaata attttttcag taacatctgg 240
aaattntgtt ttggctagtt ggaattctga tggcagattg aaaacaaggc tctcttccaa 300
ggtcttctga accttcattc caaatntttt aacctttatc attnntatnt ttgttggtgc 360
aatntgngga tttctctgtc aatccaagct atccatagtc tccaaactta ttgattagca 420
gtgggtaaca cattggttct gtttctcaag tg 452

<210> 20579
<211> 402
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20579

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ccatccatgt tggtaaagcac cagggctcct ccggagaaag ccctcttcac aacaaaaggc 120
ccttcgtagt tcggggccca tttccctcgg tggtccttga cagcatggga cattttcttt 180
agcacaaggt ctccctcatg gaacttgccg aagcgtactt tcttgctgaa cgcgctcttc 240
attctttgct ggtacaagcg cccatgactc atggccgtta agcgcttacc ctcaatgagg 300
gtgagctgat cgtagcgtgt ttgagccac tctgattcct ttaatccgga ttctgccaag 360
atccttaatg acgggacttc tacctcanat ggtaacaccg cc 402

<210> 20580
<211> 390
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20580

tataatatat cgatagctc gaaattaaac atcgattact ctcagganat tcaaatagtc 60
ataacttttc acacggatgt ccggttcggg cgcataatat gtcgagaagc tcgaaattga 120
acaacggaag atcttgagaa attcaaatag tcataacttt tcacacggat gtccgattca 180
agcttataat atatcgatac gtcgaaatt aaacatcgga aactctcgcg aaattcaaat 240

ggtcataact tttcacacgg atatccgatt cgggctcata atatgtccag aagctcgaaa 300
 ttgaactacg gaagttcttg agaaattcaa gtgggtcttaa cttttcacac ggatgtccga 360
 ttcaggcaca tcacatatcg agacgtctcaa 390

<210> 20581
 <211> 366
 <212> DNA
 <213> Glycine max
 <400> 20581

agcttgtgag ttacaaagtc ttgaataagc aattatgtga gtatttagta ttcttgaata 60
 agcaaattat gtgagtgggc actctattct aatataaata ggggatcata ctcttgtatt 120
 tgggtgtgcc aatgaaataa aatctttttc ttcttccaac acagtggat cagagcttga 180
 gttctagagt gttgagaaag aaacactttg tgagttgaga gagacatact ctgtgagttg 240
 agagatggca agcaatggct taagtatgtt tcaattccct cgtcttacca aagagaatta 300
 tgataattgg tgcgtcgca tgacagcctt gttaggttct caagatgcat gggagattgt 360
 agagaa 366

<210> 20582
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20582

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 ccttattata aacactagac cagaatccca tgctttcaat gtaggaccca agtctcatac 120
 ctagcaattg gatcctacaa gagttgcttg attcattatt gccgctattg tcaactgtaga 180
 agcactttct caccagtcat gccattacag tgtttctaaa ggtagccata taatgcttca 240
 ttttgctatt gatacttggt tttattatat tgactcatga tgtttacatt taaatgggtg 300
 ttttgttcct aatttagcat tattgttatg ataataacta tacttccctt gggtgtgtct 360
 ttatttcctt ccgtttttgc aaaaggaaat cagataagct tagttcaaca tcttagatga 420
 taaatataca agccaactac tttc 444

<210> 20583
 <211> 381
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20583

 agcttataac gcactgaaat aaactgagaa caaatTTTTc atataaataa acaaaggcaa 60
 agttcgaata actagttacc tggctcactg agcaaacgct gcgtttcctg ttgaggtagg 120
 agaaaaata gtgttcaaaa cattcagaaa gatcaaaatt aaaaaaaaaa caattgaaaa 180
 acccagaatc gcagttcatt tccaacgaag atcaaaagca aaagggtagc tgaatcccca 240
 aattgtaaca ccaaagacg cttcaatttt tattttattt ttataagttt tccttcatgt 300
 ggcaactgaa tttaaacata gggcaatttg ngaattcgca cggaagaag cagaaatcca 360
 taagcgggtt tcgagtttct t 381

<210> 20584
 <211> 411
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20584

 taatctaattg tattcaaata atataaaatt tgtgaatatt ttctttggta tggatatccat 60
 gcgacaatta gatgtcaact ttcacgggtc anagtatacg tgtcgattat atagaagtcc 120
 ctatgacact tatcatgatg tgatgttttag tagagatttg attaagttac aaatcctata 180
 tattatatat taatacatta attacattaa gtaacataaa taaattgcat taattacatt 240
 aatttatgga aattaattat cattttaatg taattacatt aattaataat ataaaatttg 300
 tgaatacctt ttgcaatgct actcttcaag ggcattggat agaagactcc aagtatattg 360
 agtcagagat gcaagagaaa gtcctanggt tctcatgaat cttggttatt a 411

<210> 20585
 <211> 368
 <212> DNA
 <213> Glycine max

 <400> 20585

 taagcttttg aggggtatttg tgggcaaagt tcgcattacg tcataatcag atcggactaa 60

caatgtctgt gcttaatttg gactcacaat ttcaaaccca tatectgtgt tttattgaga 120
aaattcgagt tgggccagct agtccaaccc attgtgtcac ctttactcta gagtatgcta 180
gttttactta tgaaatgata aatataattta tgtttgatcc ttcataattca aattcgttcc 240
ttgggagggtt caaatatgag tgtaaacaaa acttgttgat tataataactt ggattagcga 300
agactcagtc ggcacatag tcctatatgt caattcacca gcatgtaatt atgacactct 360
ctatccta 368

<210> 20586
<211> 343
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20586

tgatcatctt attaagtccc taattnttgt ttgatctggt tngagtgtga gatacaattg 60
atctctgatt tctgaacggc aatntataag agaaggata tcgcgatctt tcaaaggatt 120
gcaggcacat atattgaaaa ctgttctcag ctctgcatta cttctgatgg tgaaggagaa 180
gattgcaaag tccacatgga ttctaactct cgtgattgga agatacctgt ctgtgaattc 240
cccaaattg aaggcagttt gaatgtgtga ttattatata ttctttaaaa ataaaattca 300
tcaaagaatg tgctataatt gtctgtctgc tatggaggat aat 343

<210> 20587
<211> 387
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20587

agcttgaaga tagagacttc tcaagctatn tatcttctct ctacagagagg cttactcaag 60
cttgaggata gaaacttctc aagctattta tcttctctct cagagaggct ctctacttgg 120
attgactcac tctacggtga ctactcaag cttgaggata aagacttccc aagctattta 180
tcttctctct tagagaggct ttttctcact ctaagaaatg gattcactct tgcttggatg 240
gataggaatg aaggctccta cccttattat actactccac ctccacaatg aatggaggag 300
atacttgtat cctanggtgg agactaattc tctagaatgc tcccacattc tangagtctc 360

tacactcttc tactctcttc cataactt

387

<210> 20588
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20588

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tttttacatt gttttcctaa attctgggtt taattaaggc atccaaatca aatcaaata 120
aattctatct tttgggtataa ttacttatct atgtggatga tataatcatt gcaacaagtg 180
taaataatcc tgtaatcaac aaagttttcc ggctcaaatt acagcaacta ttgaaaacat 240
aatatacttt cttgggtacct tgcctattcc accaaggcat agaagaaata tactctaata 300
tttacttgaa gaaataggct ntatggaacc taatatttaa attgaatgta attaacgatg 360
gtaactagct ttgtaccaga cttttctcaa tatatataga agacaca 407

<210> 20589
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20589

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tcttaattgt ctttgggctt ggcgaccacg atcaacaaag tactttcggc acctactata 120
tggtgacttg accaacgctg ttattggaat gctgcgacaa tctttcaaca ctttattgac 180
acattctgat aggttgggtg tcatgtgacc atatcgctgt ccagatgtat cgtaagccat 240
gtccattttt tcttttgaaa tgcgatcaat ccattctgct atggctggac tcagttgacg 300
aaatttttct aagttttgat caaacacatg cttgcaagga gtgtacgctg catcnaaatt 360
tgtatcatnc aaaagtgtac gtagacattc aaactcaaata aaattaatgt ata 413

<210> 20590
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 20590

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 agggccaccc tatgccagta tggacttcga gcatacagtg actgtaacat cccaacaaaa 120
 tttctagtaa aaatagttga catttgaaag gtagttaatg ttaaagcatt ttaagtagtg 180
 gaataattat tttgtgcatg tgtgatatcc ttcaatggat aagtgctcta gaattttaat 240
 tctaggctta agaagatgtg ttttaggcct aaaaagcctt ggacaaaaat ttgtcaacca 300
 tagtgaacca gtcaaagtaa gagaatctcc tcatcaaggg aattttttta attatatgat 360
 tntttaagct aaaaataatt ntttacgttg ataaaattat ttaattata gttaagatta 420
 gttcaaggaa atatcttatt anttcatcaa taatt 455

<210> 20591
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20591

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 atttgcagaa agatgcccaa caaatttccc ccaccaagg taccattagc ttgaactcat 120
 ctaagggatg caggcccat taactcctct acatgcttgt ccgatatgtg gtntccatga 180
 ctttaataaga aacttctcag ccattgcctt acatatttgc tggagagggg ggattctatg 240
 ctactcttcc tcacagtata aaagctatca gtaccgaatc taaggagcat tctgtaattc 300
 aagacagata gttaaataca tgaatgttat actggtttat caacacaaga ggagtctcta 360
 ttcataagtt 370

<210> 20592
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20592

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agaaattgaa aaagaaaaat tagagaagtc gacggctgcc acagcttctt aagctttctga 120
 atgtacatta ttactgctgc attttttaaat tctcaagttc cctgttacct attctttang 180
 agaatcagag ggttgccat atttgaggca tttgtcggct ttgtggtcgc cagttggttg 240
 tctttgatca tgaagagttt gcagttttga agtgctcgga gctctgtgca ccgaagttgc 300
 cattgtccag agagaggatt gcattcgagg aactgtggag tcagcagttt ctccaggctct 360
 tagttcacag cttattgttt ggtgctttgg ggctattcct ttggaggaaa gtgcccatct 420
 ttgccaagac tgtgttgtcc ccttcctccc ctt 453

<210> 20593
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 20593

agctttcttt ttagacctcg atcggctcgtc cttcctggcc gacgccgact ggcatttttt 60
 tcgatcaata tcggtgaata atattttttt tgccgagggt ggctaagtgt ttccctggccg 120
 aataaatcgg aacatgccag tttcgggcaa aacgaaacat cggttgagct cacacgaaaa 180
 aacctaacgg acctacattg taagtttttt atgcaacacc gaaacaagaa aacttcccct 240
 gccgtaagaa aaaacattat cggccagcga gcgttttttt tttaaaaaaa a 291

<210> 20594
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20594

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 aacaacggaa gctctcgaga aattgaaatg atcataactt ttcaactcaga tttacgattc 120
 agacgcataa tatatcgaga cgctcgaaat tgaactacgg aagctctcga gaaattttaa 180
 tgatgataaa ttctcactcg gatgtccaat tgaggaacat cagatatcgt gacgctcgaa 240
 attaaacaac ggaacctctc acgaaattca aatggtcata acttttcaca cggagatccg 300
 attcatgcac atcacatatg gagacgtccg aaattgaacc acggaagatc tcgagaaatt 360
 caaatgggca taactnttca ctccgatgtn cgattcacgc gcatgatata tcgagacgct 420

caaaattgaa caacggaagc tctcgataaa ttaaatt 456

<210> 20595
<211> 338
<212> DNA
<213> Glycine max
<400> 20595

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aaaaaaacta ttgtcgtttg agttggctta aaaccttcac attcaatttc gagcgtctcg 120
atatgttaag ggactcaatc agacatccga gtaaaagtta tgggcctttg aattggctca 180
gagcttcaac attcaatcgc gagcgtctcg atatggtacg ggactcaatc acacatccga 240
gaacaaagtt atcgctcgtt gagttggctc agagcttcaa cattcaattt cgagcgtctc 300
cgtatgttac cggacctcat cagacatccc gagaaaaa 338

<210> 20596
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20596

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atcgagacgc tcgaaattga atgttgaacc tctgagccaa ttcaaacgac aataactttt 120
ttcacggatg tctgattgag tcccgttaaca tattgagacg ctcgaaattg aatgttgaac 180
ctctgagcaa attcaaatga caataacttt ttactcggat gtctgattga gtcccgtaac 240
atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aatacaaacg accataactt 300
tttactcgga tgtctgattg agtcccgtaa catatcgaga cgctcgaaat tgaatgttga 360
agctctgagc caatacaaac gaccataact ntttactcgg atgtctgatt gagtcccgta 420
acatatcgag ac 432

<210> 20597
<211> 351
<212> DNA
<213> Glycine max

<400> 20597

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agcttttttg ttcgggtgtg ccaaaaaatt tacaatgtat gtcgggctagg gtttttcgtg 60
cgagctcaac cgaagctgtg tttcggccga cactggcggtg ttcccatgca ctcggccaaag 120
gaaacattag cccacatcga aaagaaaaaa aaaacattaa tcaccgatat tgatcggaaa 180
aatgctggtg tgacgtcggc caggaaagat gaccgatcga ggtctaaaaa taaaagaatc 240
accggatgac gccgatcgag catttcctaa ttgacatcat ccaaattattg ttcagggatt 300
ggatagaaaa aaacatagct gataccagtc gttatgtagt cccgactgac a 351

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<210> 20598
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 20598

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agtttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgccctcgct ggaaagagtg 180
attctttcct tcctttcatc ttcacccttg ttctttcaaa ccacaattcc agaaaatcca 240
cctctgcccc gaattatctc gtggccataa ctcccathtt acgcactcaa attaagtgat 300
tcttgagcct aaattgactt tcaaaacgag acctttcacc tcgttttgga atcacctcat 360
ttggagccct gtagcttcag ttattgccat ttctatattt ctgtccagcc accacttaac 420
ctaca 425

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<210> 20599
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 20599

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tgctttcaag cttgtttgtg gggcttctat ggaggctgga tctttgagct tcaatgacgt 60
cctttaatgg tgattttcca ccattgagat gcagcggaag actaacgaga tactgtgaga 120
ggaggcgcca tccaccaggg aatatgcctt ggaagaagga gcttcaccac caagatgagc 180
cttgataag aagcttgagg aggatgcttc aatggaggaa aata 224

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<210> 20600
 <211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20600

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 gcagcctaac ccctttacaa gcctagatag tccttcggat tcattntgtg ttcattggctg 180
 tatgatatga gaagaaatgc aaagggttga acttggtgtg gctgtttatg atggaataag 240
 cctaaacact tgagcttgag tgaacaatg gctgtgaggt ttggttgat gatccttct 300
 tgatttttgt catgcttact agcttatttc agctgtgatt ctaatgctta tgctcctatc 360
 tttgaaaagt tgcattgctg tgagaagtca ttgatttaag cattccatgg tattcagttc 420
 atatggttga cttcctttat gaatcagaca c 451

<210> 20601
 <211> 241
 <212> DNA
 <213> Glycine max

 <400> 20601

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 aaggagaaaa agttgaactt tgaattgtgt ctcaaaaaac tctcattcat caaagttaca 120
 acaagtggta cacatgtttc tatttataga ttacgtagct ttcttgagaa gctttcttga 180
 gaaaacttcc ttgagaagct agagcttagc tacacacacc ccttcataa ctaagctcac 240
 c 241

<210> 20602
 <211> 446
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20602

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caatataagg gagttcatta gaaacactct gagatagata gatagatata tatagagaga 120
gagagagttt ctttgtatta tgtttttcgt tagtaataac atacacaacg tgtggtactc 180
tcttcttctt ctttgacaat cttcttcctt attctgaact tattttctca gtcttaataca 240
caacaaatat catgaatgac aaatttgaac ctatttaaaa atataaagga ccaatatgaa 300
cttaattaaa ttcataaaag atcaatgtga attaattntt aaaacataaa cttcattnta 360
taccacatta tcacttttca ttocaccctc tagcagacat aatgactata tgatggaaag 420
aactaanatg gatcattttt aaaatt 446

<210> 20603
<211> 403
<212> DNA
<213> Glycine max

<400> 20603

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aacaagaagg aaagagaaag aaagacctcg aacgtcggca tgtatgggtca taagaagcat 120
aatcattcg tagagagcca acatatcttt tggaaacaag agactgacgc taagagttaa 180
ttttccagaa taaccgagat aataatggat ggattcattc aaccgatgaa agaacataat 240
ttggaaatat tgggtctact tgcgtaaatc ccaagccttt tagtatcaca atgccatata 300
ctggatgctt gagtaccac ctagctgtag ccatgactaa ttgtgcacgt tgtatacaaa 360
tcgtcactgt tacgcgtgcg ttgagaaata atatgaattc acc 403

<210> 20604
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20604

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agtgcagagt gctcaagatt tctctttcca tcattcttga tgagtatgct ttaaccaagt 120
agttaagctc gaattagctt taaccaagta gtcgatttcc tccgacgacc agctgattct 180
ccgtcgccga caatcgacac tctcgcgacc cgggctaact tcctccacaa tcgacacgtt 240
atacgtgtct cccctacat tgatgcacac agtgtggtga atcgccgggc accttggcgt 300

gcagatgagt atcctaactc ggtctaacct tcgggaactct tctgtgtcat catctacatc 360
aatcatgtct cctattgctg ccacaaattg ccggaaatat ttcttatccc acactacaag 420
gggaataccc cagcattga 439

<210> 20605
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20605

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atgccccctc atggaagaaa ccctttgctc ctttgggctt gaagtgtgga taatgcagag 120
atctacctac tttgttctaa aaattcaatt ntttattaga agaatgacta tatgtgtgcc 180
tttgggttaa ttgtggaacc tttatatcta tatttttagta gttttttttg tccatactac 240
tacatttaag tattttttcac atgcaaacct ttntgtccca gtgattgtaa attatgaatg 300
gtcaaaatta aatctgaaac tatgcaatct agtcttctgg ttacagtttg aattttccgt 360
tgccttcatt tcagcactac agatcacttg gaatcttc 398

<210> 20606
<211> 435
<212> DNA
<213> Glycine max

<400> 20606

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acattcggtc caccatgaaa ctttaattga tttagagcaa ataactcatg ataatatcac 120
ccccacacaa atgaatcacg tacgttttct acaagctcca atgccaggtc ctttgctgat 180
tcaccatcaa gataatacac tgaccaatt aaattgctaa acttatcgac accttcagg 240
acaagccgaa cctacatacc attaggatta gaaaattttc agaattgcaa aatcaatata 300
acttatagaa acacattact cacttctcga ttcaatacac gcatctcagt gaaaaattta 360
gcatcatgtg caaaaggatc ggctgcagtt tcagcaacag atgttgaaac tgcaagcctt 420
tgtgcagatg taagt 435

<210> 20607
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20607

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 gagacctcct ttttaccatc ctttntctcc ggaagacctt tcgccggaat atctttatctt 180
 gaagcgtggg gtgcttcacc atcttggtcc tccaccactt ttcctttccc cttgacgttc 240
 gcgggttgga ctggtaggtc cggagggtgca aacacacgac cgctacgggt cacaccactc 300
 agtcccgtga tatttggtac cttagccgac aacgagctga catcggtggc ttctttcttcc 360
 ttctccctcg gaggtgtata tctccatggg act 393

<210> 20608
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20608

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 ttttaacatgt tgtattgaat accatgggtg agtttgggga actcgtgttc actgcaagga 120
 tctttgtttg tttgtcttgc aaggatttgg tttgtggaac ttgtgttcgc tgcaaggatt 180
 tggtttgtgg aagtcgtggt cactgctagg tctgtttggg gtgctcacat tgcagtctgt 240
 ttggggtgct cagtcgtgct cgcagggtct cattntgagt aagggtgattc agattgctag 300
 ttgtcctttg aatgcttaat ggataggtag ctaggtgtct attgtaatac gtatagcacc 360
 atggcaaata taacaatggt ctggttnttc ttttattggt 400

<210> 20609
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20609

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gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacctc attaaagctc aaagatccag cttccataga agccccataa 180
gcaagcttcc atcaatggaa tggcagatgc aagtgttaag cctttgctct tcctttcctt 240
ggctngctct ccaaccatca tagtcatgcc tatctcatta ttctttaata ntccaaagag 300
ntcagtgtct attatggagg tgagatcntt agactctaaa attgatgtga cctttacttg 360
tcatgtctat tgagggattc aatactt 387

<210> 20610
<211> 379
<212> DNA
<213> Glycine max

<400> 20610
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tttgttgtgt gaagatctgc agagaccaga gctggaagaa gaagccgtcc agagagcttg 120
agatgagttt gtgagtgatt gtgaggtcct agaggtggag gagacatccc cactacttgt 180
atttctgcaa tctttcatct ttctcttctc ttcatgttaa ggaagcttcc cagttatgga 240
aagctaaatc ctctgttggg tcttccttgt aggtacttga tgtaaataac tttttatcta 300
tttaatgatg ttttgttgtt tcaactgtgt atcagaactt gattctacca tgcttttgcc 360
ttgatcacat agatgcatg 379

<210> 20611
<211> 319
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20611

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gaactagaca atttgttgtt caggtacttc actttctatc tctctctgct gagtgttttt 120
tctctctgca gaatttctca aatttctcaa atttctccat tgcgtgttca ttcattggctt 180
ttggaagatg caataagcaa taaatattta cttatctgat tgagtgtttt tacatgggtt 240

tataacccaa cccaatggca tagtgtgcaa acagatnttt ctttnntttt tttgaaagta 300
 aaaaaatggt acaatgtga 319

<210> 20612
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20612

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 ttagccactt tcattataag aatcagtgtg cattgttaca ccagactaat tgcttatcta 180
 ttttccagtc ttccaataat ctaatctaata ttctaacaac gttcattgac ttaaaataac 240
 ctatatatga aacaagagta agaacagact aataccttta atagactatg caaaaaaaga 300
 taaattcaaa acaagtatat tgctcattat gtaggggagt ctattttaag caaaggacac 360
 acgttattac aatataaatg taacaccacc ttatggcacc tgaacaattt ctttctcatt 420
 agtggatgac gaaatctaag gatattta 448

<210> 20613
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20613

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 agactcaatg gaaggactta agaactgatc taatgcttgt gccaacccgg taacattcat 120
 ttccaaccta gttgtgactt gtttattggt ttaaattggt taacttttag ccataaaagg 180
 tgttgtnttc aggtcattgg atttgtatnt aactagtatc tcaactgctt gatataatag 240
 tttaatcttg tgaaaaactg ngcctggatt atattacata aatgtgatta tattaataatg 300
 ctgctcngat ttttattgat atatttgatc accttaataa aattggtaaa tattgaaaga 360
 gataaattaa aaatgattcg aaagttatat aaagtatttg gaaaacccta tccacattag 420
 ttagag 426

<210> 20614
 <211> 534
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20614

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gatnnnaana tatatattat taaaataata aaaattttta aatttataag acagattaag 120
ggggggttttt gatattataa agtattaata caattataac tggagtacta ttaatcatat 180
tatagggtata tatttgggta ataaataact gtgggatagg tatgtatggg gagaatatgt 240
gagataaaat agtaggttgt aaaatatata tatgtataaa tttgtgggta tatatttgtg 300
ggaggggtga tgagagttgt agaaataacg ctnattgagc catgacgacg atatgagtat 360
atatgttttag tattattaaa tcttttataa aatcattatg tatgaattag tggggattaa 420
tgcattattat aaggatgtaa tatattatta aagagtgaag atattaggtg tagaagttgg 480
aggtatgata ttattgctaa gtatatttgt atatgtgatt tgagatgtta gagg 534
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<210> 20615
 <211> 411
 <212> DNA
 <213> Glycine max
 <400> 20615

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taaaatgtta ctggcggtta aatttgctta actctccagc tttaaatttc gagcgtctcg 120
atatatgacg ggactatatc agacatccga gtaaaaagtt attgtcattt gaatttgctt 180
agagattcaa cattcatctt cgagtgtctc gttatattac gggactcaat tatacattcg 240
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cgatatatta cgggactcaa tcaggcatcc gagtaaaaag ttattgtcgt ttgaattggc 360
tcagagcttc aacattcaat ttcgagcgtc tcgctatatt acgggactat a 411
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<210> 20616
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20616

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cgaatatatc gagacgctcg aaattgaatg ttgaagctct gagccaattc acacgacaat 120
aactttttac tcggatgatt gattgagtcc cgtaatataa caagacgctc aaaattgaat 180
gttgaagcta tgagccaatt caaatgacaa taacttttta ctggatgtc tgaatgagtc 240
ccgaaatata tcgagacgct cgaacgtgaa tgtgaacctc tgagccattt aaacgacaat 300
aactttttac tcggatgtct gattgagtcc cgtaatatat cgagacgctc gaaattgaat 360
gttcgaagct t 371

<210> 20617
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20617

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taagaaaaat gccatttctt cttctttctt tcttccaaat ccatttctaa agttacaagt 120
actttctcca tcaccacat ccaccattag ccaccacaaa ccatcattgt tctccattga 180
aaaccacac cgagaggaac ctttcaaccg aagcagaatt tccaacttgg cttgcggttt 240
cggtagagaa cgaaaaccct aatctgatct ttcattttct ttcgagggaa ctatggttct 300
atgcttggtt cttgtagttt catcttgtct ttgcattctt tctaactttg caaccgccat 360
tgcattgtct atgcttcctt tgaaaaacct tagagaanaa gactttgtaa acatgatcct 420
ttcat 425

<210> 20618
<211> 331
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20618

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catgaatctc tgaattctag attgatatgt atagcttaaa acatgatgaa ggccatgatt 120
tgtatataca ccagctcttt tgaccaaata gctcaccttg aatgataact ggatcttttg 180
ctccttctat aagttgaatg atttttgtca tgaatcgaac ccttaacatc aatgattatc 240
tcttgcacct tgctacattc taggagagca tatggttcaa ggcaaattta ctctaaattt 300
gggggaggaa agtcaattag aatgaaaaga a 331

<210> 20619
<211> 325
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20619

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ccactgttct tccttccgc gatgcttctt ttcattgtccg cctgagtggg cttatagcct 120
anaccatact tcccacgatt tccttgggtt tttatcaggc tagttatgcc gccattgtct 180
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gccgcacggt acagacaagg ttgccccaaag agggagtcca cggaggaaat gctgaccacc 300
tcaaaagact ggaaagcggg ttcta 325

<210> 20620
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20620

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aattcatgtg ctagagtgtc agttttgggt tgaactccca tattatttcc acgaggcgca 120
cgtaacaatg atgatttgga aacaacgcgc aaaattaatc atgcctacaa ctaggggggt 180
actcaagcct ccaacttatg gcattatgat actaaagcct gagatttatg caagtagacc 240
caacgtttcc aaatttggtc tttattgggt caacgaatcc atccattctt atcttggtta 300
ttttggaaaa taaactctta acgtcagttt tctgggtcca caagatatgn ttgctctcta 360
cgaatgattt attctttcta tgaccataac acgtgacct tgagggcttt ctttctcttt 420

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433

<210> 20621
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20621

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atagattaat ctaaatccac attattatgg tacacctttc ataatatatt ttttctccct 180
cactgccata gtcttgtaa tcaacctaca gcctcctacc tcctatgtcc gaccccatcc 240
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tttttttagt tgattcaagt cttcccttgg tgcaatcatc caatctaagc tntaaattga 360
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a 421

<210> 20622
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20622

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gcttaaaata tgaagaggac attccttaag atagaagctg caaaaataat tatttataat 120
cctacaactg atctgcaatt caatttacia tttagcgacc aaatcatttt gactgacata 180
tcaatatgtg cctccgcacc ataatggcat aatccatcgc ctatcattgg cttttggctg 240
cctaagtgtg ctaatgtcga aaagaaattg tgccacggca aagccaccac cgaagcaata 300
ggatggcaga gcctatgaga tatcactatg cagcttatgc aatgagttgg aagaactatt 360
cctgctctac anagtatcat aacaatcnnc tctcataaat ctagacanat aatttctcac 420
atccatatag tgtcatgcat aatgaaa 448

<210> 20623

<211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20623

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 gagacattgt tgtcttttga aagcgtaa at gactaaagac attgaagtct ttggaatgta 180
 aatgacaaag gacttgagtc ctatgaaagc ataacgacag tgggctttga gtcctatgaa 240
 agataaggac agaggacatt gagtcccatg aaatcataan acanatgatg ttgagtccta 300
 tgaaacaacc caatagttac tagtaccaaa gggctcaacc ttatgagaaa gcaagagaat 360
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 gatatatg 428

<210> 20624
 <211> 266
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20624

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 tcacttaact cttcttttcta attactctga tgtgtgatgg aggccacaaa tatatagaag 180
 acgtccttac ccgaatgcga accttctgat ccaaantaaa cgacaataac tttttactct 240
 gatgtctgat tgattccgta atatat 266

<210> 20625
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20625

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atcctacggg acataatcgg acatccgagt caaaagttat tggtcggtga atttgctcag 180
agcttcagtt ttcaattacg agcgtctcgg taaattacga gactcattca gacatccgaa 240
ttaaagttta ttgtcatttg actnttcata gagcttccgt tttcaatttc gagcatctcg 300
atatattaca gggctccatc ggacatccaa gttaaaagtt attcgtcggt gattttttctc 360
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<210> 20626
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20626

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gctttccaag ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180
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ttgaaattct gataccaggg gacagatgtc gtacaggatg tcacgacatc acgcttcaga 360
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g 421

<210> 20627
<211> 400
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20627

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ttccttttgc aagtggagct tatattgagg aggaggaact aacaaatntg aggtcaaatac 180
ctcttcaagg ggaaggggat gatgcaatcc tccctaggaa tggaccagtc actagaatca 240
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tgaacctcan ggtagatttc tgagcccatg ggccaaagtt gggccaatt atctttgtac 360
atattagact angatgtcat tatatttggc cttggattta 400

<210> 20628
<211> 481
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20628

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ggatggcgcc tcctcttcat tcttttcctt tgtcttcac tggattttcc tgggggaaaa 180
tcaccattaa aggacccaat tggagctcga agatcccacc ctcatagaaa cccaccagc 240
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gaatcaaagt cgcctcacac actttgatta attaaatctt atcgaaggta gagaatggct 360
tgcatagaacc attggccact atttcaagtt gagtaaaaat gtttatacaa atgggacacc 420
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c 481

<210> 20629
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20629

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cttggttttc atagctgaaa ggcaacaatn gtaagtcatt tgcatactcg aattagagtc 180
tataagggta aacgtaattt aatgagaacc acaatatgaa acataagaaa taacatgggc 240
atcacgagat gtaaacaaga catacattcg acaaaactaa atntaaaaat cacaaatcca 300
gtgatcangg acatgagatt gtcatgtcta attgatg 337

<210> 20630
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20630

tgacccatga tacgctgcat cacngacac atagaaacta agcttttggc anaagtacaa 60
 ttagccnaaa attataatct ctgctcatcc aancaatatg gcaaacctgg tggaatttgg 120
 acctcaggtt aaaagctgca gaacccaaac ggcatgtgga caccacacct tgatttaata 180
 atcggtagca tttattctga aagctcttaa ggatttttct atagggtaat tcaacttaaa 240
 cctttgagac agaaggggga tagtaaatta ctacaacgtg ctatgggtccc taaatcccag 300
 atttaacact taaccacta gttacgagct aagtgtatta caatgaatat aatgagttaa 360
 ccatttgac ctcaatagct gaggtcatgg tcagatggaa agtaacacga agttgacagt 420
 tgtacaattt atatagctct gaacttttac n 451

<210> 20631
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20631

tgctttatcc aaatggactt accttgaatt aattcctttg atagcccttt tgagccttgt 60
 ttccctttcc ttgttttgaa gctcactaca agccttaagt gaaaaacat gatattacca 120
 tacccttaag gaattntgga gctttggaat tgttttggga ataagtgtgg ggggtttttg 180
 tttcattgga caactgttt tgttggctat gttcatgat gtattttggg ccatacttga 240
 tgtacattgt atattggtta aatgttggac atgctgaatg aaatgttgtt tctcaaaggc 300
 taaagagtaa aaaaaaaaaa aatctanaaa aaaaaaaaaa ct 342

<210> 20632
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20632

tgctctaaat ntacattgat gtttgtatattt attggaggat tttgtatgcc attnttgttt 60
 taagagtagc atcccttggt aaaactaact ttccaaatgt ttgccttcac aggaaatggc 120
 cccgaggaag cttgcctcaa agagggtccag gaaagataaa gcggccgaag ggactagtcc 180
 cgctcctgag tatgacagtc accgcttttag gagcgctgta caccagcagc gcttcgaggc 240
 catcaaggga ctgcgttctc cgggagcgac gcgtncagct caaggacgac gagtatactg 300
 atttcagga ggaaataggg cgtcgacggt ggacatcact ggttactccc atggccaagt 360
 tcgatccaga aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcggtgc 420
 gtgacatg 428

<210> 20633
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20633

tgtttgcttg ctttatctca atggacttac cttgaattaa ttccttagat agcccttttg 60
 agccttggtt ccctttcctt gttgtgaagc tcactacaag ccttaagtga aaaaccatga 120
 tatcaccata tccttaagga attttgagc tctggaattg ttttggaat aagtgtggcg 180
 ggtttttggt tcattggaca acttgttttg ttggctatgc ttcattgatgt atnttgggcc 240
 atacttgatg tacattgtat attgggtaaa tgttggacat gctgaatgaa atgttgtttc 300
 tcaaaggcta tagaantaat aaaaaaaaaa tt 332

<210> 20634
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 20634

ggtaaaccag tgtcttctat tctgctttta ttattgttat ggttgggtgga aaatttgctt 60
 gcaacccttg attggttgga aaatagcact ataagatcat tcacaatatt gacaatttta 120
 atattttctt taaccggaat gcacgtgttg attgattcat ataataaata acatgtatat 180
 acttactctc attctaattg tcaatatgca tacacatgtg tttattaatc caaaattatt 240
 cacaccatca gtgattccta caattttctt ctcatttcca ttgccaaact gatctgaaag 300

aaagagcatg attagtcaac tactattaac aacagcttta ctgattgagc 350

<210> 20635
<211> 303
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20635

tatcttttgg agtagaaaca tgggaccaac tcattntatt tcaaaaaaga aatcatatct 60
agtcaaggtc tgagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120
gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcggggg cggagtaggt 180
gtctgccatc gccttggcct tggctaaca tgggagaagt tcttgactcc cattcaagggt 240
aagagcanac cgatccatcc acatggttgc ctcttgggtg aaagagtcgc tcacccttct 300
tct 303

<210> 20636
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20636

agagcctttc atgtctatgc tgcagagcct ttttcagtgt ccactcctga ttatgccgag 60
cttgcaagat gtggtcttgc aaccaccaat tatgaacatg gaggaatttc tgcagaaggg 120
tgcctaacca ggaatccagc cttcttcttt gggaaggggg gaagcctctg gcacccanga 180
accttagccg gaccaaggga ttgatgaaaa tccctgaaat ggccaatac aagcttaagc 240
gcccagtgag aagggcgaag gcctgtgga gaatgataaa gcccccgagt ggagaaggat 300
gaaagcccaa gtggagaagg atgaatgcc caggcagaga cactatcaag actattattg 360
ttgctgaagc ccagattaat tgagggccac agtaataagt nntaagtata attattttat 420
tg 422

<210> 20637
<211> 290
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 20637

caatttgggg aaaattggat gagggaaaaa gtggttttcg aaatctgcac tttatgccga 60
 attttgtata agtgcagaaa aatgcttggt tatggctggt tgtgaaaagg gtagtacata 120
 tggggttctg gacattntct agcagatccc aacgggtcaaa atgtagactt atgtactaga 180
 gacttcagat aaaatttttcg agtcgatcca acgggttaaca aattggaacg aagaanatgt 240
 tactggggta tttgtatgtg aaaagttgtg attttgagtt gtgttttggg 290

<210> 20638
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 20638
 tccatcaata ttaaagactg cttttaggac acgttatggt ttctatgagt atctagtcac 60
 gccctttggt gtgactaatg ctccagggtg gtttatagaa tacatgaata gagtctttca 120
 cccttacctt gatagttttg tggtagtatt cataaatgat attttggtat actccaagac 180
 tagagaagaa catgaagaac acttgaggat tgtgttgcac accctttggg actgacaact 240
 atatgctaag ctatcccgtg tgattttggt tagagaaagt tagtttccta gggcatgtga 300
 tatctcaagg gggcataact gtagatccct ctaagataga agtcgctctt gagtgggag 359

<210> 20639
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20639

agcttttttaa ttgttagtta gaaccatana tacctagcct caccagtagg ttacaaaata 60
 tttataaagt ataaaccgta cctattttaa gcctatgaag agagagagtc acacagtttt 120
 cccatcaciaa ggtcatgtta aaactcaaca tgaaaagata cattccctaa gttgatttgt 180
 gctctctttt aaactgacta ctaaattgag agggactttt aaattactga actattcttc 240
 aattaacatt aataaaggat ccttggttcc tttgtagcag ggtcctcttg ctgctccggt 300
 tcttcaacac ctgacaaaag cagatttaag caagatgtac tnttgggggt tccaagtgtt 360

ggacatcaat ggtgtgcagt gctttctcac acggac

396

<210> 20640
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20640

tactcagctt caatcggcat actccacaca aagaatttga tgggattatt ttacagctta 60
ctccacacaa acagattttg aagacaaaaa ttgggcaagt ttctgcagat cgaatgttat 120
gagctgatag gaccatttta tctggcttag tgagagaggt cttatacatt ataccacaat 180
tttaaaacaa taatcacagg aaatagtaag ttataatata aaaagaataa ttttttcagt 240
aacatctgga aattttgttt tggctactgg aatctgatgg cagattgaaa acaaggctct 300
cttccaaggt cttctgaacc ttcattccaa aatttttaac ctttatcatt ntattttttg 360
ttcgtgcaat ttgnggattt ctctgtcaat ccaagctatc catagtctcc aaacttattg 420
attagcagtg gttaacacat tggttctggg tctcaag 457

<210> 20641
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20641

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accagaggg aagctcccca agttccaact ccgaacgga ctcgaccggc cggtaatcc 120
aacacaacaa ggaacttccc tccgaggccg ttgccggaat tcaccccgct cccaatgacg 180
tacgaagatc ttctaccatc cctcatcgcc aatcatttgg cegtggtaac tcccgggaagg 240
gtcctogaac cccctttccc gaagtggat gaccctaata caacttgcaa gtaccatggg 300
ggtgccccgg ngcattccat cgaanaatgc ttggccctta aatacaaggt ccaacatcta 360
atggatgccg gatggctgac 380

<210> 20642
<211> 442

<212> DNA
<213> Glycine max

<400> 20642

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tgttgacacg cggagattta cgtcaacttt tgtgttcaca ttatttgta tactgacatt 60
tgagtcacgt tgacggggcg agatacccta gtggttatcc gtataaacat tcttttttgc 120
tgtctgtaaa acgaaaagcc tgatagcatg caaaaagacta acgtcgtctt ttgcgccctt 180
cgtcaatcgc ggccgacaag cccgttgaca cgcagagatt tacgtcattt tccgcgctca 240
caagatctgt catactcgca tttgatcatg ctgacggacg gaaataacca agtggatatc 300
cgtataaaca ttcttttttc ctgtctgtaa gacgaaatgc ctgatagcac gcagagacta 360
acatcgtctt ctggggccctt cgtgaatcgt ggccgacaag ccccgtaga cgcggagatt 420
tacgtcatct tccacgctca ca 442
```

<210> 20643
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20643

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agcttttgtgt ttctgattac cagngtcngn ttctgaaaaa tctaaagatg taactcttca 60
aaaaggttnt gactctttca aatgggtttt aagcttttct aaaagatata actcttctga 120
atggctttct tgaccagaca tgaagagtct ataaaagcaa ggctttgttt tgcattttta 180
aatcaattat tccaagtctt tctaacaaat ctcttacaat cctttacaag ccttgaatct 240
ctttgaactt cttctcttct tttgtaccaa aagttntctg aagttttctg gttttctaaa 300
ctttggaaac ttatgctatt catccttttc atgctcttct ccctttgcca aaaaaattca 360
ccaacgacta atcgctgaa ttct 384
```

<210> 20644
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20644

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tgtacaatgc acaggctcac ctatcatgtg ctngaaattg ttattntatt taaagaatgg 60
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gagcaacaag gatcaaactc tagagtctag atgactcagt caaagactca tgaaccaact 120
taataagctt aagctattaa gtaaagatgc ctgattggcc ttctattaca tccctaacag 180
tggtgtattt ttagctgcaa aaacaaattg aaaaatgttt gtctggcatc actttttttt 240
acacttattt tgtattccta gtaaagtctt actcatatgg acacacagat aagggagaga 300
agtaaagaag ccttttttca aaggggtgtaa atgtgagact cataaaatgg tgatgggtgat 360
ggctaaggta cgcaagacat ttcaggtaag ttctaacttt ntttactagt cgaaaaaact 420
cattac 426

<210> 20645
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20645

agcttttttaa ttanattca aatgtctaaa aagttgttac aaacagttnt aacttctggt 60
aatcgattac atactttgtg taatcgatta caggctttga aaatcaaatt cgaaattttt 120
aaaattgttt cagaaatcaa ttcagccact ggtaatcgat tacatcctct gctaategat 180
taccagagag aaaatatcat atttttgaaa tcttaaaaaa cttttgtaaa atatccttta 240
gtcaaacctg tgcaacatta attaaggaat tctttctaag atcctangaa ctaagtacat 300
cattcttctt gaatntttgg attctggact tggatcgtgc tcatcttang catcatcaaa 360
acttcatatc atatatgctt ctacacaagg tangtgagga ttatctcatt agttaggcca 420
ttatanatta ttttcctat 439

<210> 20646
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20646

gcttcgatct gttcccatat tagctgggtg gcttagacaa caatctcatc tatcgacgta 60
tctctatact tgattttctag aatgaattat gagcatcaat ggggcacttt taaagtctct 120
aaataaggtc ttgatccctt ctcttggttc ctttgaaatg cctatccaat atttatgtat 180

cacttaaattg tatctatcct taaactgaaa aaaagaaagg caaaaaggac aaaaagaaag 240
 aaaatgagct ctttangaac ccctccactc ttgataactcg tcggactaaa atgggttgga 300
 gaataggtcc aagtgggtgc aaagatgatt tgtctacca tgatgatcag tcgattttat 360
 ccctattctc aagaaacctc cattccagac gaagtcttgt ctgagtattt ctagtctcct 420
 atg 423

<210> 20647
 <211> 190
 <212> DNA
 <213> Glycine max

<400> 20647

atcactcttt tactcgggtg atcactcttc tttttatatt cctttgtgga gcctcactat 60
 tctctttctc ttgttctctc gtttctctca ttctgatttg gacatcacat gcttctctac 120
 gggatagagg tttaagacca aacgaggaag atttgactat tcgtctgtag ggctcttctt 180
 tgtacgggtc 190

<210> 20648
 <211> 522
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20648

ccacaccact ccccaaaaat aaacaaaaga cacaggnnac ccccnnnncg aaaggagagc 60
 ctgacctcga aacngaacan ananaccaac nngaagaaca aaggagaggg aacgaaacta 120
 tgagatgatg cgcaccacga gcacgggggg caaacggaga atcgagaaca aaacgaacaa 180
 aaaaggagga gaaaaggga agacggcggt cctagacgaa accgaagtga tgggaacaaa 240
 cgcaacagac ctccacacaa aggaaagaag gaaccggacg cccaccagga acgagagag 300
 aaaacagagc aaggcctccc aagccacaac tatgatgcga ccacacgcga agcttgccaa 360
 cacgggagtt tccgacctat caccggaggg gcgaacaagc caccaaagga gagagcaaga 420
 catgaacagc caacggccga acacggaccg gaacgaaaag atcacgagga agcggatgcg 480
 ccggccaaca cacacaggac acgaaaccaa gcacananac cn 522

<210> 20649
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20649

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 gtaatcaatt acacgttata aattttgaat tcaaatttct agtgactgtt ataaacatct 120
 tcagctgctg gtaatcgatt accagagaaa aaatctcaat tggaaataat agaactcttt 180
 ggtcaaacct tntgttnttt caatttggaa acttcttctt aaagattcta gagatcaact 240
 tgatcatata tcttgattnt cttggattct tgtcttgaat aaaacttaga agcacttgat 300
 ccttttagcat catcaagaca tcaaaacatc ttgcttctac atangagtca nttgacttaa 360
 tccatcaact ganaaatcct tcaactatct ctcgtccttg gaaaattcat ttgcangaat 420
 caactgcatc tt 432

<210> 20650
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20650

tcactgggtgg atttctccaa tgagcaagtc cttctaattgc tctggcggttc aaacaaaaaac 60
 aactttttcca gccacagatt ttggcattgg ttcccataat tactaaggta gcagagcaaa 120
 ctgcccagta aaatccttta tttgttgaag acaagcaaga atcctcaatg agcaaagaga 180
 attgaagaac agagagtggag cattttttaca tttcaaaaca gatttgggta cagaagatcg 240
 gaatttgtga caccatgggtg caacatgaag taaacagacc acattttata aacaacccaaa 300
 tctaaaaaac tataagatta acaagaagcc catttgaaaa ctaacaccta acacaataag 360
 ctgaagttcc aacatgaagt tacaccanat gcctgcttat agctacatag gcaaatacat 420
 atccctcac 429

<210> 20651
 <211> 421
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20651

atctttttaga attcacccca attctggtgt cctatgctaa ccttctctca tatctactcg 60
ataattcaat ggtagccata accccagcca tggntcctca acctccattt tttcaaagat 120
atgactcgaa cactacatgt gcttatcttg gaggagtcc ggggcattcc attgagcatt 180
gtangaccct gatacataag gtgcaaagtc taattaatgc gggctagtgt aaatttgagg 240
agaatcgctt gtgaattatg acattggcaa gcgacactat acatggngca atttgaaggt 300
tggtgttaga tgtctctaata gactttanga ttttcaagtt tatgccatta ttctaacagt 360
tacaatgcta ataatatgat aaatttgaca tccttgtctc tcctcctctc acagntacat 420
c 421

<210> 20652

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20652

gtttgtcttt gacagtgaag aacaggatta tttggttatc aanccattnc taagaaaacc 60
caaagaaaat aagtgttga aaggcctgcc atccgaaatg ccttggtctat tgaaatcctt 120
gaagaaaagg gttatgaagt tgaaaaaatt tgatggccaa ttaaccatct atacctgctt 180
aagaactgga gttatgtang gaagggtggt atgggttggt tggctattgg tctttcataa 240
ccaaccctac tcctatgcaa tgaatatttg gatagtgggt gaaacaacca gttttaaacc 300
agatttggtg atgggtgaca ctgatgtact ctggataggg tggcatggaa actcaacaag 360
aatgacaata tcaaccattg aaatcttccc agtcctttta gccacaccct taattntgta 420
ataccacaaa gttatn 436

<210> 20653

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20653

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 tgggtttgag gcaatatgaa gagcatcctg attatcacaa tacaacttca ttggcaactc 120
 ttcacaaaac ctcaattcct gcagaaacta tttaatccac atgagctcac aagtaaccat 180
 agccatagat cgatattcag cttctgcact ggaccgagcg acaactgtct gtttcttggt 240
 tttccaagaa ataagatttc ctccaatgaa gacacaatag cctaattgtag accttctatc 300
 catgggacaa ccatcccaat cagcatcaca atatcccgat agttgtgtat tacccttgtc 360
 ttcatacaat aaccctagac caggagcttt ttaagatata tcagatacgc atgacagcat 420
 tccaat 426

<210> 20654
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20654

agctcgcttg ggcaagcacc ccctgcacaa tataattaaa ataatgggg gagngcaggt 60
 ntttcaccca aaacttatcc ccctcactca agaacgcagc acccgtggga atgaggggtct 120
 ttttctgacc ctatggcacc attttgggct ttttgctttc attttaaggg ccctgatcac 180
 tccatacaag taaatacatt attctttggt ccctaacttt tcgttgatgt atttttatgc 240
 tctaaacgta catattgggc aatttcgtga ggaatttggg accaattcat gccttgattc 300
 attgaatngg nggggtgtan gggatggccc tangectatg gtgtgttctg aaatgattgg 360
 gcangccaca ttgcccccaa tcccttcctt gttatacacc aaagtgcgcc caccaagtgc 420
 tcagtgaat gcct 434

<210> 20655
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20655

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 tgtgcttagc acaggtagtg gcgctaagcc tgaatcactc actgtaagtt gaagcttgat 120

gtacgctaag cctcgcatct caggctaagc gcatattgca gaaagatttt tgggtgttgca 180
aattcacttc ccaagaggct tgggaaagat acatagatgt tattgtgcct aggaagcttt 240
tggcagagag gaatgtggtg gtctactata cagagtttga tgagttcaag gaggaactcg 300
agacacacca ctangatgag gaggttgactg actttggtga cagcaacatt gatgttgcca 360
ttgtgaaagg aatctacgcc aacctctatg accncgagga canatcacct aa 412

<210> 20656
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20656

ntanaatttg aattanaacg ttcagaaact gttggttaatt tattaccata tatgtgtaat 60
cgattacaca gggcaaattt tgaattcaaa ttttaatagc tgttgtaaatt cagttttggc 120
cactggtaat cgattacatc ctctggtaat caattactag agagtaaatt cttggccaaa 180
ctttttgcta cttcaattgg aattcccttc ctatttaata taccctttct aagactctat 240
agactgtctt ctcatcctct tgaatatctt taattgcttt gtcttgaata aagctttgag 300
acgcatgtga tatnttggca tcatcaaaac atcggcttga tcctttgtct acacctttat 360
catttangaa caacgacctg agtgggtaaa cgcacagaga cagattctgc accctttatc 420
attcangaac cacaacctga 440

<210> 20657
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20657

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atcaggaacc tgatgaagat gagattgtgg gtgtttccct ctcacggtca cttctaagtg 120
tagctgcttc agctttgatg accaatataa cagacttang ccctcttgct ttgccctatt 180
ccgagcagct gcgctatgga tggtcagtga tttccaggaa aatgtgggca aggcggaaca 240
aggaaatgta tgttccanat ttcatgaagg ctttngagca tttctgcata catgctggtg 300

gtaagtcagt cgtagatgcc atagaggaga gtctgaagct gcacaagaaa gacggtgaag 360
cctcaaggat ggcattatac agaattggca atacttcac tttcttctgt 409

<210> 20658
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20658

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atagtaatta attgctaact ttgatagcca atttggatag gctgggtgaa atttgatata 120
atgtcaatag taaagtggaa actgcaattg ggccaataat cttgggggtgg ccaaggaaag 180
tattcgtaga cattaatttc atgcatatga catgacagaa ataaagagaa tgatgaatag 240
aatcgcttgt taaaatcgat ttacatatga tcacacttat atatgctgnt gctatcaatg 300
caaggggctg attaataaaa gatcgaaatg tattatatgg cttataataa caagtcccag 360
tagatgttgc atataaac 378

<210> 20659
<211> 334
<212> DNA
<213> Glycine max

<400> 20659

agcttttctt aaatcagtca aatgttgatc tataccagct aacttgacta ccacatcatc 60
aacatatact ttgatgtttt gccaatggc atcatgaaaa atgagattca tagccctcta 120
ataagtggca ccaaccattt tttagtctaa acgacatcca taaccattca tatatcccaa 180
gagctctgag acaacagaat atcatttttt gcatacttac aacagccata aaaatcttat 240
tctaaccaa atgaccatta ataaaggtaa gaacaccata tttgggtgtt gcgtcaacta 300
acatgctagc tatgggtata acatactcat cttt 334

<210> 20660
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20660

ggtgcccttg accttgggcc ttgantncgn gacctatgaa actaagctta accataggta 60
gatgcacaca aaatgggttt atgcatctta aatacgccct catgtagcag cttttaaact 120
tgaagtgtgg accatgccaa gagttgggaa ttcttaaagg agatggaggg tttttattag 180
taccacataa aagatggaga gttggccatg gccttatacc aatgtgggac aatgggtcttt 240
gaaccaacc gcccttgct tcattgggaa gatgttaaac acattggcct gggccatttt 300
aaatgatgga agaccatttt atacttgaag aaaggacaca taagtgactg gtttactcaa 360
gaaggaataa atgggaggat agtgcaacag tgcaagagaa aaacagtagg gggagggagg 420
tgattcttct ggatcatgag cacaaggacc tgannattca ttagaggaga gc 472

<210> 20661
<211> 385
<212> DNA
<213> Glycine max

<400> 20661

acatagatct gtaggtgat ctgcagaaga acataaacca cagactcttg caacaagtgc 60
atatttctga ttcattggcaa gctgagttac taggttaacc aaggcatcaa gttttccctc 120
aagcttttta ttctcagcag atgaagatga atccatggcc acctcatgga ctctctaaag 180
gacaatagca tcatttcttg cactgaattg ttgggagttg gaaaccatct tctcaatcaa 240
attcttagcc tcagcagggg tcgtatcacc aagagctcca ccattggaag catcaatcat 300
actctctcc atgtagctaa gtccctcata gaaatactgc agaaggagtt gctcagaaat 360
ctggtagtga ggacaacttg cacac 385

<210> 20662
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20662

tcanaccaca gcaacacana atctaggtgt ccaaaacccc tcaattcaat ggcttttcta 60
ggtttgaaag gtgaaattta gaatgaggta aatttgaagc aaactctcac ctcacacaag 120

tccataacat caatctaaac ttgctcaaac tgaatttaca ccaaaaattc caccaaataca 180
aaatttgact cttcaacacc caattttgcc ctagaaatgg ctcttggttc actttggtca 240
tttggttttc tctctagcta gcctaccttt ctcacatgtc ctaaatagaca tttcaagcta 300
gtattaactc actttaacct ccatttacca caaaattcag acttagcctt ccaactctca 360
aagtctcacc ctttntccac tcataacatc acattctcac tntctaacc taggtaggtt 420
ctacccttca tctctaaca 439

<210> 20663
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20663

agcttttcnt tttaaattaa ttaagtataa ctaattttta attaaattta atcacattta 60
aatccctca ctcccttttta attatacatg atgtgaaaac taaactcatg ttctccgaga 120
agcttagcat ctggtgtcaa agaaattgat ctctcaacac aaatttttct ttgtatgctt 180
ggagttggaa ccctgaccac atagactctc ccatgtgctg tatatgattg attagaactt 240
acaacaacta agcctagtag tggctttcat attcacccta tcttccaaag ctaaacaggc 300
atttaattaa ttatatattt acgaataaat atatgaagat gaagttgtct ctgggttccat 360
atataaaaca cg 372

<210> 20664
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20664

tgggaaaact aaacctcatt acattatttg agagctanat tccatttttt ccaagactta 60
tccgagaaca ccaagatttt cccttgctgc accgctcaca taggacaggc ctttaaaacta 120
cctaacaaga cggtgaagta agttgtttca tttgcatatt ggaataattt cgggcaaaat 180
taggacaaac cacaatggcc aagttgtaag aagtggtaat gccttattat caacggtggc 240
tttgatcagt cacaacgcac gaacgcactg ctaattaatt agatggcata tatatatctc 300

tttcgtcaat acaccaatga cccaaaaaag aagataatta gcattcccaa ctaacctttc 360
 cttatgcagc ttgactact ttccgatata aacccatatg atcttgcttt acaaatacca 420
 ctga 424

<210> 20665
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20665

tatgactgcn attcctgctg tttccgtgag caatggagtt cttgagtgaaggngcggcg 60
 nnnnnncnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntacaataa anananacaa 120
 accatctaaa caatctcctc tatttatctt acaaactacc tccttatcaa tatttaaaca 180
 taaatcccct caaacactta aatctataac ataattcctt cttacatctt aataattttt 240
 cactataaca ctttattaat tacaattatc cttatatact taacaactta ctcattttta 300
 catcatctct tttcttctat ttatccacct catactaatac aaaaaataacc cccatccaat 360
 acatcacatc ttocctaact ac 382

<210> 20666
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20666

nttgaagaat caagaatttg aggggtcaacc tcaagatggt gtcaaacttt atgaggtata 60
 taaaacctta aaaactacat tagccaaatt tgataatgga acaaataata ttaacaaact 120
 attaagatat tgtagaagtt cctcaaaaaa atttgtaaatt ggaaatgatg aaaaggtata 180
 tgttcatgat gaagacaaca ttatctatta cttttgtgga aaaactagac acatgacatc 240
 cagatgcaag gatcgaccaa gtaggtgcaa tcaatacctt catggctaac aaaaaagaac 300
 ccaaaaatat ttgggtacct aaggaaaatg ttattcttat tgcaatgtcc ttgaaacagg 360
 aagaaatgcc tatcatggac ctggaaatgg ntgttacaaa catgatag 408

<210> 20667

<211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20667

agcttatttg gtattgtata cgtaccaaca tattacttgt attcatttat gtgagcacia 60
 gttttttaga tgagggtcaa aacatattat tatttaattt gattgaattt tccttctctt 120
 tatttttttt aatatttagg ttatttgaat aatttaagta tcaatatctc tccatttatt 180
 atctgcatat ttaaattctc ttcagacagt aatctttttt tttgttattc ttcttttctt 240
 ttcccactaa taaaaaatct ctcaagaccc cttcgataac tntgtaattg ttcttttagga 300
 aattattaaa agcttttata ttctataata attntagtaa tgatgttatg caagttttat 360
 tacttaaaact ctttatagta atattttggg tgcaacaact tttaatgacc taccaagttg 420
 nttcattaat attact 436

<210> 20668
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20668

tanagtacca tagtttcatt aattctcttt aggtcgctgc tttggcttgt ggataccata 60
 ggctcccttg tgaatttaat caaagagtca ataattttta taatgtattc ttgcgtagtt 120
 caacatatac ttgcagtaat aaaaaatttg gtaattatta ttatacttac ttttggtaat 180
 ataagttcat ttcacaaaca ttaatatact aatataagta tttaaaaact tagcatcatc 240
 agttaaaaaa ctaattaatt ttagtgtccc tttcgatctg ataaaaatga actaattttt 300
 agcatttgaa agtagtattt ttatttaaaa atatttatta tactaaaaat ataaagtgtg 360
 ataaatattt tttataaaaa aaatcatttt tatatgatta actataaata ctataaactt 420
 atattggata tataatagag aaactat 447

<210> 20669
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20669

agcttgtctc atcgtttatg cgagacagag accaacaatgt tagctatcat cgccaagtac 60
 caagaagagt taggtctagc cacggccac gagcatagaa tcgcggtatga gtatgccccaa 120
 gtatacgcgg aanaagaggc tagaggaagg gtgatcgact cattgcacca agaggcaacc 180
 atgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttcc cggattgtta 240
 gccaaggcca aggcgatggc agacacctac tccgcccccg aagagattca tgggcttctc 300
 ggctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ttaggaaact 360
 tgtatggtct ctcagacctt gactagatat gacttccttt ntgaaatana atgagttggt 420
 cccatgtttc ta 432

<210> 20670
 <211> 214
 <212> DNA
 <213> Glycine max

<400> 20670

gaatgtttat acggataacc actcgggttt ttccggccgt cagcgtgact caaatgtcaa 60
 tatgaccaat cttgtgagcg cggaagatga cgtaaacttc cgcgtggtaa agggcttgtc 120
 ggccgcgaat gaccaaggac gtaaaagacg tcgttagtct ctgcgtgcta tacgctgtac 180
 tcttactgac accaaaaaag aatgtttata cgga 214

<210> 20671
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20671

ttgcttttct aaacaaagtt tatacattcc agtccactca attcatacaa ctctcattca 60
 tttcaaacac aaccattcat ttaaaaccaa aacacaccac tgaatatcaa attcaaccag 120
 ttcactgttc aaacaagctt tttgtacaag caatcaacac taaattaact ggaatntaaa 180
 tgactaaaat ntaaatactg aaatttaa atactgaaaca taaagcataa actaaataaa 240
 ctgatcaaaa taaactgttc aaaatgcaag acaagaagat aaagatcctg tcaatcctcc 300

tacaggtgat cctctgcatg cacattaaga tccaacactg gagcggttgg tggatcctgt 360
acagt 365

<210> 20672
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20672

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aagagcctcg tgtaaaatga cattcaattt cttataatcc atttcaaacc gaaattgtac 120
tttaatatatt gaaatgtaat aaaatgatga tagatttttg tgcttttggt ttaaacatta 180
ttcactgagg agagaatttt tttccctgcg tcatggcaac cacattttta acttaagatg 240
attgaccctt gattggaaat gagggcatgc cttgcattgc tagaaaataa gacatttgct 300
attgatgaga aagtactccc ttagaatgag tgtcaaccac ttggtggcct aagagggaaat 360
atacctctag tgccaacata tgggggaatc 389

<210> 20673
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20673

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aatacattat nttggagtaa aatgtcaagt ttacataact tgacataaca gattgtcatt 120
attctagtca gctatcaatg atctattata ttaatgcagc tcacaacaga ttcttttggt 180
tctttaatac aagcatataa ttctaagaca gatagtttgg ttaatttacg tcctgctcag 240
tcagtgggtct gggatgccat ggtgccttcc aaaaagagga catgtgcagg tcgtccgaaa 300
ccctcatctg ttgagaagct caccagagac ctgtgcacta ttcttcatga acaacagtct 360
ttattt 366

<210> 20674
<211> 366
<212> DNA

<213> Glycine max

<400> 20674

tagcaatact aacctcacia agaagggcag gttttttaac ttcttaattt aactacaaga 60
ctcttacct cttttatctt tacatttttag cttcttttac atttacattt atattttaac 120
tttgttata actttttctac cttttttcct tcacaacatt tttaaagcct tctatttagt 180
tttttttttt gcctttatctt tacttttcaa attcactggt agataaattt aatcaatggt 240
cacactaaac ccctctcaat aactcgagat tctattattg agtaaaataa cttgatcaac 300
aacgagtgat aatggtttaca attacctgat tttattcggc tatctagttg attcatttag 360
ctaaca 366

<210> 20675

<211> 359

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20675

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gtggatggcg cctcctctca cctctttctcc tttgtcttcc gctgcatctc catgggtgtaa 120
aatcaccatt aaaggacctc attgaagctc anagatccag cctccataga agccccacaa 180
gcaagcttcc atcaaaacct tttgctattt caatttggaa ttcccttcct aaaatactag 240
agatcttctt gatgttgtat cttgtattct tggattgggtg tottgaatta aacatgagaa 300
gcgcattntc ataagacatc aaatcatcac gatcatatgg cgtcatcaaa acatcaaat 359

<210> 20676

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20676

gatgcagatg gggtttgtatc taccttatca ctctctaat gactatggca tcatttctgg 60
cgctaaactg ctgggaattg gaggccatct tctcaattaa atttctggct tcaacaagaa 120
tcatgtctcc cagggttca ccaactggcag catctatcat acttctctcc atattactga 180

gtccttcata aaaatattgg aaaagaagct gttctgaaat ctgatggtgg gggcactggc 240
catagtttct taaatctctc ccagtactca tacaggctct ctccactgag ttttctaata 300
cctgagatat ccttcctgat ggcttggggtc ctggaagcan ggaaaatttt ttctaagaat 360
actctct 367

<210> 20677
<211> 410
<212> DNA
<213> Glycine max

<400> 20677

ggctatctct tatcttgaga caccatactc ggggcaaagc gtgaaaggaa gacgacatcg 60
gagtcagcca gcgtagccct aagacgtgct gctacggaca gcgaaccccg gagcacacga 120
gcgacgcgaa aagcgacgcc agcagcctag cgcaaggccg cgcaacccgc gcgattacca 180
acccagggga accagggacc gcgcagagaa tcgagggcgc ggcggaaacc gcgaccgaac 240
cagagcacac agcgggtggac gcgagtggc ggccgacggc gcggcagcga aacagaggcg 300
agccgcggcg aaaacccac gggggggatc ggctctgcag gaccagacgc ggaggcaaaa 360
aacgggcaga gcactcacac acaaagacag ggaaagccgg ccagcgcgcc 410

<210> 20678
<211> 331
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20678

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gtctttcttt gtctaacata cacacttggt caaactcatg aaaaggaaca caaactccat 120
cataatcatg ctttcaattc aaaataaagt catacaccca ttttcacaaa aagaataaag 180
tgttttatat gcctgtcatc aaaatcaagt caaactgtc catatgcttc agaataagca 240
aaccaactat cttccataga ctagcagtga atataaatat gaaaaaata ctgtactana 300
accataatta aaataataat aaacccaaaa g 331

<210> 20679
<211> 432

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20679

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atcttttacc ttctgaaaac cgatagtaaa tgaatggttt agtgcaaata tgcccaacgt 60
gggtactttgg gaatcaaggc tgctaataaa aaaacatata ttttttatgc aagttgtagg 120
tttttttctt ttccttggtca ttattacaat tttactttgg gatatgtact attgtgttgc 180
tttcatgaga tttcaacatt tagcttttag attgttattc tgaaatctga aaataagtta 240
ttcatgtatg ctgctcttcc ttgatatcaa gtggaaagtt aactaggaaa agctcttagt 300
caatggctnt ttccagtgtt tttcattgat atggatacaa gtgcangtat tgcattgaat 360
ttctaaagga atgggcacga gaggatattt atatangaaa atntanaaca tanagtacta 420
acatcataat at 432
```

<210> 20680
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20680

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ttgagccaaa atcctgactc accataaacc ttgtccaggt gtgagaatgc caatccttac 60
cctcggaagc aaaaaaaaaa aggagaagag aaggaaaatt tccaatcaaa gaggaagcat 120
aaaaaggaga gaaggaaaat ttccaatcaa agagaaagaa aagaagagga aagaaaactc 180
ccaatcaaag aatgggagaa gaaaaaaaaa aaaaaaaga agttaaaaag aagaaagctc 240
ctggtcaaag aaaccagaag aatgtgcaga aaggtctttt gaccggacga tatctgaaca 300
atacagaatt gtcaccaa atgaacaaaaa agaaggaaag gaaatcacga cctanaatgg 360
tcttctcctt ttaattacca accaaaatcc c 391
```

<210> 20681
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20681

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 taaaaagtta ttgtagtttg aatttgetca gggcttcggt attccatttc gagcgtctcg 120
 atatattacg ggactcaatc ggacatcaga gtaaaaagtt attgttggtt gaatttgctc 180
 agagcttcgg tattccattt cgagcatctc gatataattac gggactcaat cagacatcgg 240
 agtaaaaagt tattgtagtt tcaatttget cagggcttcg gtattccatt tcgagcgtct 300
 cgatgtatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360
 tcagagcttc tacattcaat ttcgagcttt tcgatataatt tacgggactc atcagacatt 420
 cgagta 426

<210> 20682
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20682

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 atcgagacgc tcgaaattga ataccgaagc gctgagcaaa ttcaaacaac aataactttt 120
 tactcggatg tctgattgag tcccgtataa tatcgaaaag ctcgaaatgtg aatgtagaag 180
 ctgagagcaa attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240
 ataccgagat gtcgaaatgg aataccgaag ctctgagcaa attcaaaca taataacttt 300
 ttactcggat gtccgattga gtcccgtaat atatcggaac gcttgaaatn gaatgttgaa 360
 gctctgagca aattcaaacy acaataaaact ttactcggga tgtcttgatg agtcccgtaa 420
 tatatcg 427

<210> 20683
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20683

agctttttgt gagaaagcgt ggaagagtca gtcttcctac ttttgtttgt tgaccacaga 60
 gtggtacctg gagatatgtc gcgaggggtca ngagaccttg gggacgtcag gtgggggtgct 120

attgccccaa accaagcttg accaatcccc acccaacccg ggcatagtca gtcagtggga 180
acctgtgatg tacctaaaca gacgagctcc tggcagtcaa ccaataaaag aacaaagacc 240
acaaagcaag gaggcttgtg tgggtggctgg ccagctatga atcttgagtg gtatctggaa 300
tttggcctct ggtaatcgat taccaagggg gtgtaatcga ttacaaggct tnaaaatgga 360
gataggaagt taagatggcc tcttgtaatc gattaccaag ggtgtgtaat 410

<210> 20684
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20684

tgaagaggat gctntaatgg aggatttgaa agagagaatg tgggagcacg aaattgaagg 60
aataaaagag ggagagaagt ggaactttga agtgtatctc ataagacatt cattcatcaa 120
agttacaaca agtgttacac atgcttctat ttatagacta ggtagcttcc ttgagaagct 180
ttcttgagaa aacttccttg agaagctaga gcttagctgc gcacaccct ctcataactt 240
agccacctcc tgagaagctt ccttaagaag attcctaaag aagttagagc ttagctacac 300
atacctctct aatagctaag ctcacctcct tgagatgaga agctagaact tagctacaca 360
ccnctataa tagctaagct ccccccatg acannaaaca tg 402

<210> 20685
<211> 96
<212> DNA
<213> Glycine max

<400> 20685

aaaacggaga gaagttgaac tttaagttgt gtctcacaag actctcattc atcacagata 60
caacaagtgt tacacatgct tctatttata gactag 96

<210> 20686
<211> 80
<212> DNA
<213> Glycine max

<400> 20686

tgcttgacag catgacgggc atgtatgatg cacgaatgcc tatctcgggtg tcgactatac 60

tgtggatgaa tactcttcta

80

<210> 20687

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20687

agctnnttaa ctatctacag ttacaactct ctctctctct ctctatatat atatatagca 60

atgcaagttt taaaattgga agtcctcggt ccaatcactc gcagtacaca tgctaaaatt 120

gtaggatata aatggtgaat caatataata tattttggta aagtggcaga aaccgaaagt 180

tgaatctatc aaaatcaaaa tagatgctgc agtgtcacgt cgtgggttcac gaggaatatg 240

ggaaccataa ttagatagga caaacgtacg aagaagcaag gtgacgcaag taccacaacat 300

agttagttgg tcacttcaca ttacactttt acctttgtca gngccacata aagggtccga 360

atatgtgaat a 371

<210> 20688

<211> 429

<212> DNA

<213> Glycine max

<400> 20688

actaagctta caacattctc gtgcgttata tccctgagta actgctgtat caaatgatat 60

tcactcaaaa ccaatccaaa ccgccaaacc attaaataat ttttttttta taaaaaaaag 120

cctcctctgg ctcaagctc ttcaaggttt ccaaatacta gaaactacag agaactaaca 180

aaagaaaagg aaaatagata aatgaaaaaa aatggcaatt tcttcagaaa ctcgaaatta 240

aaaacaatct aagcgaattc gcttcgaatt tcaaaattac aacttccta ggtgtaatta 300

agcaagcaga gaaaggaata ccatgatttc acgtatggcg gtgggagaga caccatcgcc 360

atccttgat tggcttgaat ttttatggc gaatggattt ccgcgattgg tggaagactt 420

gatgcgagc 429

<210> 20689

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20689

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caagtaaaag gaccacctgc aacagaaaga ggcgccggccc aacgcacggc tccagccgct 120
ccccggccag ttaataatac agcccccgac gcgacctata aatatgcaca gcacccgccc 180
ccgaaagata acttctcccc tattcccatg gcatactccg agttatggcc ttcattattg 240
gagaatcatt tgggtggtggc catacccggg aaggtcttcc agccacccta cccaagtgg 300
tacgacccgg gtgccaagtg tgtgtaccat agtggagctc ccggacacaa tattgactcc 360
tgcaccccg tcaagtataa agtgcagcac ctg 393

<210> 20690

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20690

tcggtgggat caaggagtat accacatatt caacaagatt gttgaagact ttaagcacac 60
ccaccctaata aaccaagggc tcagctgttg ctaaacaat ttttttagca aaactaactt 120
gaaagctacg aaggggtgctt tagaacaag tttgaaggaa gctcctctag tggacctgga 180
cgctattaat aaaaggaaat agaagaggct aggcaaacc attgctgatg aagaccaata 240
tctaaacaac tttggtctta cagaagattc agaagattat agctaagcaa tagaaaagaa 300
aaaagaccaa aaaataatca caaaaagaag aagaagaaaa tgaacttatt gctanggagc 360
acgggatgaa gagaagacat gagaatgttg cgtctac 397

<210> 20691

<211> 455

<212> DNA

<213> Glycine max

<400> 20691

agttgctcat gcattgcagg cactgcagct agtaccagg atcctatcag ccgacctgcc 60
tgctgcagct tttcattttc ccagctcatt gtgaacactg aacatgatat ctggcatctg 120

ggcgtattac tcggttctac tagaactgct gatctggcta atgactgact gacgaatcaa 180
 tggttactgt agcggtgaga tggtgacaaa gtctttgact ctctcgagct atgagcttgc 240
 ctctatgact gtctagtaac acagatctag caagatagca acgccaactc ccgagttgct 300
 catgctatgg ctctggtagt gacggcaaag cattcgcaaa gcgctcattg ctaatgactc 360
 ccgtgagact gtgtcatatg cacaagaggg atgtgtcttg atggaaaact gggatatctg 420
 ttactagtgt aggaaatatt ttatgagaca cattg 455

<210> 20692
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20692

tttggaatga aaatggcggtt atacttgctt ggtntgacat tttcatgata aggtggaaat 60
 ggatatgtgt ttcattttcg ctcttggtta acaatcattt tcctccaact caactgctcg 120
 tggctttagt aaaactagaa gtgttagttg gagattgcat ttgtcaaatg ttgcaatttt 180
 ttgtttgcct ttatgtttgg aatttaagtt cctagatact gtttgcgga atgggacagg 240
 atcttgtgga ttgttcgac cctctttctc caaataaaaat attgocctctt tggaagtatc 300
 atttggtgtc ttattttgcca ngcgttacta agttaaggga atttgtttct ttactggctt 360
 ttctaaatca atacagctgc cgagtaatgt gaataagatg taagttgctt cat 413

<210> 20693
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20693

agcttgtttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgaagaa 60
 cgtcgaagaa cgggtganat ctttgcgaaa ttcctcacgg aaaacggttac ggaaacgttt 120
 cggaagcgcc tcggcttaga ttntcttcac ggaaacatat tttccaagca aattcgaaag 180
 agagagaagt gcctaattggg ctgacccctt ccttcttgcc ttctccctt atttatagca 240
 aaatagggga ggtggttgcc gccagctcg ccaggcgag ctcagctcgc ccaggcgagc 300

agggttgctt cctccagaag caaccgcctt ctggaggaat attccggagg gcccaagtgg 360
gcctgggtgc tatntgcacc cccattttta ctaagtacac cccctctag ctgtttttgg 420
tgattctttt ttcgtaa 437

<210> 20694
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20694

gatgaatcaa gattgattca aagagtnttg atgatttttc tagatgactg accttttttc 60
tcaaaaggca agagcacttc atgataaaaa agactgatga tctccagaat caaaaaatgg 120
gttcaagaat gaattcagaa cacttcaagg gtccaatgga aatttgattt ccagaatcaa 180
gaattaaggt tccagaattc aggtcccaga atccatatct agaatccaga atccagagaa 240
gaccttatcc agaatantat ctgccagctc ccctaactga gttgacatga attttctcga 300
accttttacc agacttttag tctctgggat cgata 335

<210> 20695
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20695

ttctttttct gcaccaaagt cctttntcta taaatagcca tgcaagggga gaggttaaga 60
ggtcagaact aaagaaggag aggaggaaac acaaaaagag aaagagaaga agaaaaaaa 120
gcaaagctga ggcgttgcca aatcgcaacc gtggatcatt cctacatca tttctctcgc 180
tagccttgta cccacgcaa cagtcgatta gtttttctta agagttgaat gtaatctatg 240
tacccttata ggccctctgt gatattatgt gtgtatttat cttctccctt ttatcgttgg 300
taatttcgtc tcattcgtaa ggcttaattc tagtcgatca ctagtgatcat gaaatttggt 360
ttttagtgag actggangga ataaacaaac caaatgaaa aaaaatcatt ctaactattg 420
atcgagt 427

<210> 20696

<211> 301
 <212> DNA
 <213> Glycine max

<400> 20696

cacagagtgg tacctggaga tatgtcggg ggtcaagag accttgggga cgtcaggtgg 60
 ggtgctattg cccaaaacca agcttgacca atccccaccc aaccgggca taatcgggtca 120
 gtgagaacct gtgatgtacc taagcaggcg aactcctggc agtcaacaga taaaaggaaa 180
 acaagaccac aaagcaagga ccttgtgggg ctggccagct gtgaattttg tgtaatatgt 240
 ggattggggc ctctggtaat cgattaccaa aggtgagtaa tcgatacaag gcttaaaatt 300
 g 301

<210> 20697
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20697

ttcttgtatg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
 gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatcct cgttcctctc aacaccgggt 180
 ccccatcaat cctcccaagc tttcccaaca tccaagtaat tcaacaatca aacaacacaa 240
 actatcacag ccaagaaaac agggcaaagg cagaanactc tgcccaaaac accaaccaaa 300
 atcacagctt ttctcactta aagacccag taaca 335

<210> 20698
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20698

tagctagata gattgtccaa gatggaagat acttttaact attttatgca tgtatccatc 60
 tcaaaccaaa agaacattga tgcttctatt aaaaatctag aggtttaagt gggacaattg 120
 gcaaaacaaa tgtctgagca tgaaagtgga tccttctcag caaccacaaa agtcaaccca 180

agaaaaacaat gtaaggcagc tacaactaag agggggggcag tagttgggtt gaagaacgaa 240
agttantttc gcgagaaaaag acaaatgaag agttgtaaaa atgagtgatg aaaaagaagt 300
agtcgaaaga gagaaacaaa atgaagtatt agctaaagag atggagaacg aaatgagtga 360
agtggaggag cataaatnga agaaaaacaac atctaacaaa ggcaaagttg tactagatca 420
tccaccaatt caacatct 438

<210> 20699
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20699

ttgcttggtta actaaatgag ctaagttata ttntaatata attatattca tttagttcat 60
gataaagaat taattntact cacaatattt gtgtgttaca cgtacatatt aaagggtgggg 120
caggagagga gaggaaactt acaaaaagaat aaattaccat atgtttataa aatataatta 180
acttatttca agttttctat aattttataac gacaatttaa tcttattcgg ttttttaa 240
atagaaatga tttatataaa aacatgtata tatgataaac attaagtgtt taattaaact 300
atntatctaa gcacataaac atcaaantta aaaaataatt aacctttaaa atcaaccgat 360
tac 363

<210> 20700
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20700

tccactccag ttccattcg agtacctaatt ggttttgant ttcaaactgt aaaaaccaga 60
atacacaata cccttaagct aactgacaaa caatttttgg atgaaattta ctaccggcag 120
cctttcacat atgcaagtaa tcaattttgg tttcaatgta tgcaattgaa agatgatgct 180
gatgttaaca caatgttaat gggtaatcat gaattttcgt ttgttgggtct gattgagtta 240
ttatgtancc tactacaccc cacatggtat tttaaactta cttcaagcta ctatgatccc 300
tacttatgat gccctgctat attacaatgg gaagtggaac atgtcatgc 349

<210> 20701
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20701

ttcttttctct tgaggagggga aggatatttg cagctaataga acaactctct taactatttg 60
 nccttcccca aactggccaa acggacaann taagactaaa tacaatgact aatgcaaact 120
 gtccgcaaga gtcattgcat tcagtctcat acggaaatct aatgttcact caccatgaac 180
 aacaattgtt tatgtagcan ataacagtga tcacatacaa caacatacag aaggatcatat 240
 tctattacag acaaatatag acatcagcag ttgtttatgt aactaatgtc atatgctgtg 300
 tctcaagggt gcttatgctc ctatattgta gttgggtata tgtgtgtgag tatgtatcat 360
 gaggatgtgt gagtgttgat attaacta 388

<210> 20702
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20702

aagaccagac tatatgaggg atccnacatg tggtatagtt attatcttaa gggctaccgc 60
 ggctacgagc tngcaagact aagaaaactc gtcatacaaga cgacatcctg aagttgatga 120
 ataatgcctc atggaatagg gaagaaaaaa aaaggagaga gaacggctct ataccgctc 180
 aactacccca agaagaagat gaggaagaaa acccggtga accaccttaa cctgcatcac 240
 aacgacatga atacgcgcta ccgaccaga gtctacgtca agacgagtaa gagcattggt 300
 ggacaaaacg aaaccctgac catggcctac tggaacctgt aacctggaaa agcgacaagc 360
 ggaacactgg ccaggcaatg gataaatatc caaagacgac aaagcatact gggaagagac 420
 agcccccg 428

<210> 20703
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20703

tgcttataac ctccatgaga gaaagcagag tgaagcttgt gagagtcgtg agtggagcgt 60
caagttagag ttgtgagatt agggaggcat gagtcgcaag agcctgagag cgagagtccg 120
tggggggagag gaaattcaaa ttcttagttt tttaaagagaa tttgaaattc tcctatttga 180
actaattaaa attccttata caaataccag aattttaatt gctccttaaa ctttntatcc 240
aaacagctta ttttacgggt gagtatttta aattcttcaa aaaaatgaat taccatcttt 300
aattccccca tccaattgca gggtaaagga nagttacatt cttttatcaa acaaaaagaaa 360
ttttgaggaa ggagtggagt atcata 386

<210> 20704
<211> 436
<212> DNA
<213> Glycine max

<400> 20704
tagcaaatgg acctgggtat tgctcagttt cattatatct tccgtaatac tcatcacctc 60
tatcatatct aataattttt atatttatgt ctaattgcc ttttacttca ttgtagttaa 120
tttctaaggc atccattgcc taagaaatct cgggcagtaa gtagacataa ctgtaacgtg 180
aataatcatc aataatgggtg ataaagtatc attcctttcc gaaagaacta acatcaaaaag 240
gtccacaaat tcaatatcac aatttcaaga agctgagtgc ttcttgtagc tcttttcttt 300
gtatgttttg cttgttttcc cttaatacaa cccacataaa tatttagatc cgtaaaatct 360
agataaggaa gaatttcatt ctttattaat atttccatcc tttctctaga aatgtgacct 420
aaacgtttat gccaca 436

<210> 20705
<211> 302
<212> DNA
<213> Glycine max

<400> 20705
agcttttcca aagaagatgg tgatcatccgc aaactggaga atattcactg cgaccttggt 60
cttccccacc ataaagctgt gaaataagtt tcttgacact gcttccctca tcaatcctgt 120
taacccttca gcaaccaaga caaataataa agggggccaag ggatccctt gtctcaatcc 180

tctttgaggc ttaaattcat cagttgggct tccatttaca aggatagata ttgaggetga 240
 tgtgaggcat cctttaaccc aaccaatcca cctttcatga aaccccatte ttctcatcat 300
 at 302

<210> 20706
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20706

tttgtcatca cctaanaaag ccatttttaa ggtctaacgt cttgaaatgg tcttttccgc 60
 ttttattcgt taaatgtaga tttctaaaag gcctaaaatc aacatgtagc tttattacct 120
 ctttcaaaaa taaagagatc atgaatgggc caatgcctta atgttctctc tattttcaaa 180
 aagaatcgaa agattgttta atgggtccaat gccttaaagc acctttcatt caataaaaac 240
 atacttgcac aaaggataaa aaataactta accaacgctt agttctcaaa gaactaagta 300
 ggtctgattt ccttatcaca attgaggaat atgtangagc aagggaaaca ccctcgtcga 360
 ccacaaaaag ataaaaaata taaaagacat tggaaataac ataaaattga tgtcatattt 420
 gcacat 426

<210> 20707
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20707

agggaaacgca aaagaacggc gggaagaaaa aggggaaccc cccccggagt gtcatgagct 60
 gcaaccanag cggggcaaag cacggaaaaa cacttcattc ttacaccga gagggaaggg 120
 aaacaaagag cagaagccga aaaaagagga aaacagaaa acgaaaagga cggaagaggg 180
 aggaaaaagg cacggaacga aaacgaaggg cggaagaaga gagaaaagga ggcacacgag 240
 caggagacgg aggaagaaca gaggaggcgc gggggagagg ggaggcggaa gcgaaaaaga 300
 cgaaggaata cgagggggaa gcaagaaacg cggcggggca agagaaaggg gggggaacaa 360
 ggggaacaac gaagcaag 378

<210> 20708
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20708

gatgacttga ctgagacntg aaaacaccan taanaattct cacctacaat cccactttta 60
 aattttatatt ttgacagggg atccgcgggg gaatttcctt cccctgcaca acggtccaca 120
 cactagtgtg gagctgccag agacggtaca aatctgattg tacagcatct ctctcaggat 180
 ttgtgtacac aacggggaga ctacgacggg ttatcgaaat aacccccccc cccccggttt 240
 tgaatttaac tattctgggg gaaagaatcc ctatggctct ccccttgagg ttacctgta 300
 ctgatactat ctatgctgat attgtaatag tggccctatg ggtatatgct tgtg 354

<210> 20709
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20709

agcttgtatg taaactatat gccttgggta acctggtaac ccaattggcc atgaataaaa 60
 aatctgcact tgtcgccata ctctatgggt tatgctctc tgttgaccac cacacagacc 120
 tttgcccttc tgtgcagcaa tctaaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180
 tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacagaac aattatgacc 240
 ttccagcaa cagatagaat cctgngtgga ggaatcatcc caaccttaga tggtcgaatc 300
 cttcacaaca acagcaaca caacaacatc cttattttca gaatgttggt ggccctagca 360
 gaaccatagc ttctccacct atccagtagc aataacaaca acagcaacag 410

<210> 20710
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20710

ntataagcgc aggtcaagtg gtcgcaatat gcgaagatga tgttccaagt acattgtatt 60
 tggtagcacc atgccctcct gatttccage tgggaaattg gcgagtggag gaacgcctcg 120
 gcatttacgc aacgagcata atgtaaacct ttacggtttt aaaagctcta tagttgggcc 180
 taggcttttag agtttttctt tttgttaagg ctttgtgtct tttgtttttg aatttataat 240
 acaaggatct ttcttctctg ttctacgtct ctaccattc tcattcattt gcatgtttac 300
 ttctttttct gaaacggcag atccgatgac gagtcccccg aaggtactaa tacctgggac 360
 ccgcctatcg acttcgagca agaaatgagt caaacggaag atgaaagaaa cgaggatgtg 420
 gga 423

<210> 20711
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20711

agctttataa ttctctatag ataacaatca cccttgagca atccctaatac atgtgaagaa 60
 atgactcctt aatcgctcca cacctgcaac aagaaagggtt agaagataaa tgtcgtttaa 120
 cacgaaaaga aattgtaggg aggctgccat ggaaggcaag tcaaaggaag aatttgacan 180
 ttttaggtaa aggaggcttc caaacacaag accagttcac tagaaaagaa gaatgaatgg 240
 caggctctcg gattaaccac tcgaaggcat atttagttga aaagcaccct aaactagatg 300
 ggttccatat aattntgtca agcatatgaa taacaagtgt ggtactcatc attttgagtc 360
 taatattant tggtagagtt gataaacagt gtcccaattc actgccctca atggaatgta 420
 ttatgc 426

<210> 20712
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20712

actaagctat aagtataaat tatttttttat tatagtaaaa ttttaattta actaattatc 60
 tgcgataata aacttataac ctgttaatat attaggctct accgatataa gacttagttc 120

acatatatttc atcttctctt catgctttta ataacaataa ttttgatttt tataaattat 180
 attttgattc acatcaattg ttttctcaat tgtgtctaaa cctattgctt catgtaaaga 240
 aaagtttagg ttaccacaag tctgataggt tatacaaata nacctggtgc tttatgtaaa 300
 gaaaagttag agttatatca aagttttgat aggttataca aataacgcct attatttttt 360
 catgtatgag atatgagata agaacgagtc tattaatagg ttatacaaac tttnttcatg 420
 tataccaacg ttctatgaga ta 442

<210> 20713
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 20713
 agcttttaac tcgcagagac taacgtcgtc ttttgcgcc ttcgtcaatc gcggccgaca 60
 agcccgttga cagcgagaga tttatgtcat cttccgcgt tacaagatct gtcatactga 120
 gttctgagtc acgctgacgg gcggaaatac ccgagtgggt atccgtataa acttttttgtt 180
 ggttgtaaga cgaaaagcct ggtagcacgc agagactaac gtcgtcttct gcgcccttcg 240
 tcaatcgcg cgcacaagcc cgtttactcg cggatgatcta cgcatcttc cgtgctcaca 300
 agatctgtca taetgacttt tgagtcacgc tgacgggcgg aaatacccga gtggttatcc 360
 gtatacactt tttgcattct gtaagacgaa aagcttgata acacgcagag actaacgtcg 420
 tc 442

<210> 20714
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 20714
 atgcaaaagt tatacggata acctctctgg tattttcgcc tctcagcgtg actgcaaagt 60
 cagtatgaca gatcttttga gcacggaaga tgacctatat taccgcgtgt aaacgggctt 120
 gtcagccgtg attgacgaat ggcgcagagg accacgttag totctacgtg ctatcaagct 180
 tttcgtctta cagaacacaa aaagggttatt cgggtaacca ctcgggtatt ttcggccatc 240
 cgccgcaccc cagctcacat gacagatctt gtgagcgcgg aagattacgt acatcttcac 300

gtgtccacgg gcttgt 316

<210> 20715
<211> 280
<212> DNA
<213> Glycine max

<400> 20715

agcttttccc taatagagtg ctttggataa gaagcttaga gaggaagctt caatggagga 60
agagaatgag agagagagag agagagagag tccggggggg ggggtgcgaa ttgatggaaa 120
ttacggagag aagttgaact ttgaagtgtg tctcacaagt ttctcatcca tcaaagttat 180
gacaagtgtt acacatgttt ctatttatag cctagcacat gggaaacttc cttgagaagc 240
aaggaatgta gctctcttgg gaagctagag gaagaaagct 280

<210> 20716
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20716

tactcaagct tgcttgcgga gcttctatgg aagctggatc tttgagcttt ttgatgttct 60
tcaatggtga tttttcacca tagagatgca gcggaaggca aaggagaaga ggagagggga 120
ggcaccatcc actatggaat aagccaagga agaaagagct tcaccaccaa aaattgcctt 180
ggataagaag cttgaagagg atgctttaat ggaggaaaag aaagagagaa ggggggagca 240
cgaaattcaa ggaataaaag agggagtaac tggactttga agtatgtctc acaagactct 300
cattcatcaa aggtacaaca agtgttacac atgcttctat atatagacta ngtagcttcc 360
ttgagaagct ttcttaaaaa aacttccttg agaagcttct ttgagaaaac t 411

<210> 20717
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20717

agctttgttt gttttgtgat tctagagaga gaaaggtcca agttccagag agttttgaga 60

gattttgctg tgtgaagatc tacagagacc agagcttgaa gcggaagccg ttttgagagc 120
 ttgagatgag tttgtgagtg gttgtgagat cctagaggtg aaggagacat cctcacaact 180
 tgtaattttg caatctttca tcttgttctt ttctttgttg taaaggaggc ttcccgggta 240
 tggaaagcta aaatcctctg ttggatcttc cttgtaagta cttgatgtaa atatcttact 300
 atctatctaa tgatgtttta tgtgttcttt gtgctatcag cttttcattc tagtatgcct 360
 ttaccttgat catatagatg catgctntgg taggggcatt caacagtgga nactgggctg 420
 attctgatga ccttga 436

<210> 20718
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20718

gaaatttgca aattgtttca gaaatttatt tagtctctgg taatnganca catcctctgg 60
 taatcgatta ccagagagga aatagcatag ttttgaaaag ataattgttc ttaaaatttt 120
 tttgtaaaat atttccttta gccaaacctg tgcagcatca attaaggaat tctttctaag 180
 atcctatcaa ctaagtatat cgttcttctt gcatttctga attcttgact tgaatcgcg 240
 tttcttttga tcatcaaaac ttcatatcat atatgcttct acaatctccc ctttttgatg 300
 atgacaataa tctaaaatca agataaacga tacaccattg ataatgcgtg ctcacaaccc 360
 ttacaccccc ttaagattga agattatgcc taagttctct cnccttttg taacatcaaa 420
 aag 423

<210> 20719
 <211> 425
 <212> DNA
 <213> Glycine max
 <400> 20719

tttctttttt gttagagtca gaagtgctaa tgacaaatac ttataagttt gagaatttag 60
 tgaaacttga tacgttatca agaaccggac gtagtctcag tgatagaaat gaactaatat 120
 aaaacttcat atgtctaata tttatctttg tgtgcatctt atctgacctt gggattgaat 180
 ttgattttgt tttgaaaatc tgctttgata acatctatct caattgtctc gctatgtttg 240

gttgagaaaa tccattatTT gtctctcaaa gttattttca gatggtaagt tgtgtgtttg 300
 caacaaagtt taataaaatt ttaaaatcac aattcaatct cttcttgCGa tattgcctta 360
 catataacat gttcattatg cctttatatt gtcagtatct cacatataat ttactagcac 420
 tatga 425

<210> 20720
 <211> 567
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20720

ccgccactca cacacccacc accacatcan acctaagtac tagagtaact tgtgaccaat 60
 anacnaaann naagggcgag gtttgaacct tgagacantc gcananacgn gacaccatan 120
 aanaccaag cccgctgcac cattgacaga attaaccaaa aattttacct cttttggaca 180
 ccagaggcag agacaacCAT ctgtcaattg cacaaagtca tgactctcac tccagcgcta 240
 gctcttccca atttccagct gcccttcatt ctggaaacta atgctaacga cactggtata 300
 ggagcagtac tacatcagaa tggccatcca ataacatttt tgttcaagaa acttgcacct 360
 agagtggaaa agaaatctga cgcccccaac agatgctagc aattggtgaa gctatagcta 420
 aaatcaaaca ctacctgctg ggacacaaat ttattaacaa aactgatcaa aaagcttgag 480
 aacaatgacg gaacaacccc tacagacacc ctgacaacaa cagtggtaac acaagttttg 540
 tgaaataatt ggcgactgac acaaggc 567

<210> 20721
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20721

tcttaccact atttactgat gaatactgta gccaatgatg cgcataatcg atatggctga 60
 catgcacaat attgcatttn cgcgtggaaa attgtgaact aggacggtct gaggctacga 120
 gactgaatac aatactgtag ttcccccttt gttacacgat cttttgcgat gctggtgcgc 180
 ccctaaatgt catctgctcg aactgaacag tgccgtgaat gatgataaac cattttataa 240

caggtatccc tggctgatac aacaagtgct gaaaatcgta atccgacacg caatgatggg 300
 ttccacacat aggatacatt cttttttgcg gctagcgctg caatgactgc tgtcgggtacc 360
 ttgctgttgt tacaccaaat aacgctaagc aaatatctga cggacatcgg gaaaccc 417

<210> 20722
 <211> 554
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20722

acgcacacac gacgcgcgca caacgtacac gtgagacgat ataaagaggt gagataactca 60
 ttattantgn acaaaaanaa ganaggagga atgagncttg agaccctga aacnccgtga 120
 caccacanna nactnaagct tgggagttgc tcaaacaagt tgagcctttt agagctctta 180
 gctttggnac acaagtgcaa caagagatgt aactacttta tgccccaaaa aattaccagt 240
 gttaaaactg attccttcat ttgctcattg caggaagggg ggcctacaac attttccttg 300
 aaggactttc ttaaaagtca aagacaagaa gttaaatacc acctagacgc tggggaaaga 360
 acatgtgtac attgtgccgc ccccgacac accggactgg tgcatgcatg atttgatcac 420
 tagtgaaaag gtgccatcga aacttcgcga caattattgg gaacagacta caagactttc 480
 gggacaactg cagtattacg aatagggtag ataaaacgga gaaaatcgaa ttctatcaaa 540
 tacacaatat ttcg 554

<210> 20723
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20723

tatcttattt tccgatcgcg accctctgtt catcagtgga ttctggcagg agctntttaa 60
 gctcagcggc actcaccttc gtatgagttc agcctaccat ccacaaagtg atggtcagac 120
 tgaggttatg aatagagtaa ttgagcagta tttgcgcgct tttgttcacc gtcggccccg 180
 aaattggcgt aaatacttac cctggattga gctctcacac aacacttcat ggaattccgg 240
 cacaggttcc acgcctatg agattacatt tggacgataa ccttcttcat taccggaata 300

catctcggga acttcanaat ttgatgctgt ggacgaatct ttatacaccg agaggaagtg 360
 ttcattgcat tcgtagaaat t 381

<210> 20724
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 20724

tccgcttgct gaagatgtgg acaaataatc actatctgtt tctgatttat aaacatcaag 60
 tcctggatta tctatgatag tttcctcttt ctttgactca ccaccaccat tcatctcaca 120
 gatgaagaat ggtgaagttc cttgatcaga gcttgaaacc gaagaagtac cagcttccat 180
 tgtagtaaat ggtgtcccta gctcacggct gctagttgga gtgacaactg gtccttttat 240
 agaatttaaa gaatccccct ctcttctctt cgtttccaag cattctaatt tgttcagaaa 300
 gtaatggaca taattcttca caatccctct tttgtgttca accaaattca agcggagtac 360
 ctagtggttg gaatgcttat aaccacgatg tgcactgcag tcttctctgca ttgttttctc 420
 at 422

<210> 20725
 <211> 338
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20725

tatctttgct tttcaaagct tacagaataa tgacttanaa cgtagccaaa tacacggctt 60
 aaaataaaag ataataataa tctaaatcta ggaaggtggt ggaaggtcga agcaccgacg 120
 aagataaactc acatctctct caagctgagt gatgcgggca tccattcctt caaagcgagc 180
 atcaatggca tctatgcgac catccaacga atcaaagcat tcgccatcat gcatgacggc 240
 tgaggaatca tctcgttgag gcggaggaga gggagtatgt tcgtcttgcg gaggttgcg 300
 gttcttcttc aaccattgcc catgcatgtc cacggtag 338

<210> 20726
 <211> 411
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20726

tgacttgagt catcaagaga ttatacaata tgttgacaca tgtcnctgag tttcaacaat 60
tatcaatcat ggttgaatca tctatctttc aatctatctt tcaatatctt ctttcatctc 120
tttaaactct ttctataaaa atttctgatt catttctcct catctttcta aaagtttttt 180
tgttcaaata ctttctcttt caagaaaagt tctttgatca aaaacttggt ctattcatct 240
ttttcattct ctccctcttt ccaacagaat gaaggactaa ccgctgaat tcttttctat 300
ctgccttctc cttttccaag agaattcaaa ggactccgtc tgagaattct attgattctt 360
ccctttccct taaacaaaat atttcaaagg actaaccgcc ctcaatatct t 411

<210> 20727

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20727

tgcttgact ttccagtgat ggaatgaatc catatggcag ttttaagcact caacacagtt 60
catggcctat tttgctagta atttaaaact tgtctccttg gttgtgcatg aagcaaaaat 120
gcatgatgtt atctatgatg atatcaagcc caagacaact aggaaggac attgatattt 180
atctcagtc cttgattgaa gacttgacaa agttgtggga caaggggggtt actgtgtttg 240
atggtatcaa aataagacat ttaagttgctg tgcaatgcta tttcgtacca ttaatgactt 300
tccagcatac gagaatntga gtggatatag tgtaagggc catcatgcat gctctatata 360
tgaagaagac acaagccatg tacaattgna catggaagaa aatatataca ctcggcattg 420
cattttcta 429

<210> 20728

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20728

tcattaagag gcttctcca gaagcttcat taagagactt ctatcattct ccatacatct 60

tttcaaagat cccaacggtc agatcatgga caagtgtctt gtgaagttgg agaccaaatt 120
 ttgaaaagat ccaacgatta aagaaggctg ggcagaattt ttaccgaggc agcttcatgt 180
 agctttctct agaagcttca ttaagaggct ttctctagaa gcttcctcgt ggcttctttg 240
 agaagctaga tcttatcttc cacacccctc tattaactaa attaacttcc ttaaaaataa 300
 ttacggatga gaataacgca acaaataatc taacatcaaa cataattact aataatatat 360
 agatatatat atcaggggtg tacacagnca atatcggncc ttctcattac tcatcaccca 420
 atca 424

<210> 20729
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20729

tgcttctaatt ttatatTTTT agaccaaatt tcaattatta acatttaggc cattaatgag 60
 tcaaccatta ttgattaga gatttttctc ggaactattc taattcttcc taaactntag 120
 ctttaaaact taagagggtta accatggtaa ggtatcctat ggtaacatct cattntctac 180
 catttcaata gcctaaaaac actacccaat tacacaacaa aaaaataaca ttgtctacca 240
 cacacacatg gaaaattgga atgttatagt tgacataagt atctcatgat ttcttcatcg 300
 gtgggtgtctt caagtgttcc atcaacaata tgttgtcaaa ctatatcgaa gttagaagtt 360
 caagtcattt tatgagttag 380

<210> 20730
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20730

taggaaggag gattggctgt ttgcttacta gttgcaccca tttggatagg taggaaaccg 60
 tagaatccct tgaacctaaag tgagagttat gattcagtat accgaagaag gaagatcatg 120
 ttgaagtctt gaaacgtata cctcttttct ttaatcgtct catgtttgag aaagagtcga 180
 ccatgtgggc aatcgtgttt ccttatgcct gtttgttcat ttagattgca ttagtgtctc 240

ctatgatatt acccaactcc aaatagtatg tcattcacat tntattatct ttgagatggt 300
 actctcatga gaaaacttga cttatgaaat actaccattg agaaagcgaa aatcgtaaaa 360
 cttagtcatt aagtgcanaag gagtcttaag gtcgaagtca ctg 403

<210> 20731
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20731

agctttacaa caccgaagca atacaaaatc caaacatcat gaactatcaa aaccaagaaa 60
 acagggcaaaa ggcagaaaac tctgccccaa aacacaaacc aataccacag ctttccttac 120
 tcaaataccc cagtaacatt ctcttcgttc caattcggtt accgttggat cgactcgaaa 180
 attttactgg aggtccctag tacataaatc tacattgtgg ccattgggat ctgctagaaa 240
 acgtccagaa cccaatctgt actactctnt ccacaaccag caaatacaca tcattntctg 300
 cacaaagcca aaattctgct gcacatttca ccagcanaat tctgcataat agtgaagatt 360
 tcgaaatcac acttgccctc g 381

<210> 20732
 <211> 419
 <212> DNA
 <213> Glycine max
 <400> 20732

gtatttggtg gtataatttg cctgttccat taggttctta atgtcttttag aggttatctc 60
 ctcatcgaca tcttttgtct tgaatggaat tgccatgaca gggtttattgt tactgtcttt 120
 gatgtttggg agttgatatt gtgttgctgg aggttaattcc gattggatta actcactatc 180
 cttcacttgc caatttggtt tgacatttgt tgttggatca cctatgatgt cttgttccaa 240
 cggatatctat atccttttctg atggcataag catgaaacca atcaaagaaa aggacattaa 300
 ttttgactct ttcgacaaat tcgtagaact tgtcttggat ttgttttctg tttgtaccct 360
 tgtaatggtg gaaaaacat ctcccttggg gttcattctc cggagaataa aatctttcc 419

<210> 20733

<211> 416
 <212> DNA
 <213> Glycine max

<400> 20733

acctcgggtgg taaaaggtat gagcatttga atttctcgag agcttccatt ttttaatttc 60
 aaacgtctcg atatattatg cgcccgaaac ggacatccgt gtgaaaaatt atgaccaata 120
 gaatttctcg agagcttacg ttggtcattc tcgagagcct ctatatagga tgcgcctgaa 180
 tcggacatcc gagttaaag ttatgactat ttgaatttct caagagcttc cgttgcccaa 240
 ttatgagcgt ctcgatatgt gattcgcgtg aatcggacat ccgtgtgaaa aggtatgact 300
 atttgaattt cacaagagct tccgttgctc aattttgatc ggctcgatat gtgattcgcc 360
 cgaatcgaac attcgtgtga aaaggtatga acatttgaat ttctcgagag cttccg 416

<210> 20734
 <211> 202
 <212> DNA
 <213> Glycine max

<400> 20734

agctcgcgac gctattgacg agtgcctgta tatagatgcg cctgaagtag acatacgagt 60
 gacaagctct gaccgtttgg atgattttac aagttcctat gattaagtag gagcgtgccc 120
 atctgatata cacctgagaa atacctcagt ggaagaacgc ctgagcattt gcacttcttg 180
 cgagctgtcg acgttcactg tt 202

<210> 20735
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20735

agctttgttg cttatgtgcc caaaccataa ctttgatgat gctgcatagc tgcatatcat 60
 ttatagcggg ttgaaacctc aaaacaagat gatccttgat gctcaacta gaggcattat 120
 gatgtccaag agttcagagg aagccatagt aatcattgac tccaaagtag ccagtgatta 180
 tcanagtcac catgatagag ctccaactca aagaaaaggt ataacagaag tggacactca 240
 aaatgcaatt ctagcacana acanactctt gagcgaacaa atngaggcct taacaaagca 300

gataggccaa ctccctcagc aatatcacca aggtggacca cagaaaacac aacaagttca 360
ccaagttcaa canattttga gaatgcaatt ttgcgagggt aaccatcaga atgaccacta 420
tntagtagct ggtgacgaac aac 443

<210> 20736
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20736

tctctggggc catttcctgc gagaacaaac atttaaaagt tatttntaca agataatgct 60
tatcttaacg caaaaaatgt catgctaacc tctctgattt tagaacgaac tgaccctca 120
cccagaaaca gctgaaacac gtatgtgtgg aatatectac tatttatatc aacatagagg 180
ccatccaaca cattctaatt gtcatacata tatgcatttg aaaagaacat acattctcac 240
gcccaggca ttgcgtaaaa ctccacttaa tttatatcct aaacatttgc tatttagaaa 300
ctacctacat atgtttgaaa tatatatcat acaaattttt attgtttcac tcgcatttat 360
tcatattggc aagctattta cattatgcac acacttgcac tcaaaaggga atttcgtgct 420
atcatacatt cat 433

<210> 20737
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20737

agcttgtcta ctctcttctt cactacatca agaactactg ggttgagtct tctctgtggc 60
tgtcttactg gtttagcccc atcctctana tttatctaata gcatacatgt ggatgggcta 120
ataccaggaa tgtccgccag ggtccagcct atagccttct tatgcttctt gagaattgat 180
aaaaacttct cctcttgctc atcaacaagg gaggcaaata taattactgg aaaacgtttg 240
ctatcatcca agtaagcata ttttanattt gatggcagag gcttcaattc tgggtgtgggc 300
ggttggataa tggtagaagg agatggtnct tcagcctgta cctcataaag acagtcagag 360
gtatgtgtac ttcttgaaac atggctagtt ctatcagact ctacgacacc tactctacg 419

<210> 20738
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20738

taggctaaat taggctaaaa ttntgtaagc tacttgagct gtttctagtc ttacatgagg 60
 gatctgcgga cgaaactcag ttttaagttag tctaaaccta agagggctat ctaaactcggg 120
 tgtagcctta aatgaaggat ctgcggacga agcttggata ttccgcctga cgaaggattg 180
 agggtttagt aatttaggct gcaacataaa acacaagagc atgattgatt agagaaatat 240
 atttctatgc atcagcgatt tgtagaaaga cccaacatat ctacctactg ttgtcattnt 300
 atttaccttg cattttatna gttttagcat acaagtttag tttagaattt gtttgaaatt 360
 atcacttata catgttctct caacaatgct tcgattctga acttaattca nggtaacatt 420
 agttccctgt gtcaatactc 440

<210> 20739
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20739

agctttatatt attctntntt tattaggnta gatgaattct taaaagaaat taattgaaac 60
 aaatgacgat taacttcaac tgaaagtcaa gaaaaatggt caaaaaggaa aacttacgct 120
 atttatttga gaaaagcggt aaccgcgaat ttgtatggac caaaactgct atgccccaaa 180
 tacaataaat gatagggaaa atgcattatt tttatatata tataatgaca ttggtgcaaa 240
 ctaacttctt tnttatgatt aattnttatt aaaaaatgat gtggattgac cactttatta 300
 atactcanat tgaaaacatt acttaaggac atgaaatgta gttcaacttc aaccaacaat 360
 atgttgcagc aggataatg catttgtatc ttaaataacc attntatatc atttcaaagc 420
 tggtattcag gaagagttaa tt 442

<210> 20740
 <211> 415

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20740

 aactcaagct tgtccacaaa aataggttnt tgaagtttgt aatttaaatt tctcactatt 60
 tataatggat cattttcaag gtccaacgcc ttataatgat cacctcttaa agtaaaaaag 120
 aatcacttga taagaaagaa ctacgtaggt ctgatttcct catcgcaatt gaggaatacg 180
 taggagcaaa gggaaacacc cttgtcaacc acaaaaagag aaaaatataa aaaggggtata 240
 aaagatataa agacataaaa agggaacact caatcaagtc atgtntgcac attcgatcaa 300
 aggctgccgt cccttgggac ggacgtgtgg ggtgctaata ccttccccgt gcgtaaatac 360
 aactcccgaa cttttcactt aaaagttcgt agatcngcgt ctttcggttt ttccg 415

<210> 20741
 <211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20741

 ttcttattga ggagaggcgc aagaccactc aagaaaaaga tttactgctg cggcaggagg 60
 aactagacaa tttgttggtc aggtacttca ctntctatct ctctctgctg agtggttttt 120
 ctctctgcag aatttctcan atttctcaaa tttctccatt ggggtgttcat tcatggcttt 180
 tggaagatgc aataagcaat aaatatattac ttatctgatt gagttttttt acatggttgt 240
 ataaccaaac ccaatggcat agtgtgcaaa cagattttnt cttttttttt ttganagtaa 300
 aaaaatgtta caatgtgaaa aatgttagct acacttttta tgcacaaaaa attaanaaaa 360
 tgtatcaaaa tttttataat aactcataag ctccacttaa tc 402

<210> 20742
 <211> 520
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20742

 caccacata natacgccaa cagcccaccg cggattaaca aacaacgaca tactcaccn 60

nnncaggggg tgaatgagca tgatacnccg caanacngga ncnananaaa cncaagccct 120
 agnnganggc cgcnganggn anggaaaact attaatccat catcccgggg gacaaagaag 180
 accaggagaa aatagggggg tattgaaaca tacagcggac ttggcaaaat aaacaaattc 240
 agccactctc attataaaaa ccaatggaca atggtacacc agaccaattg cctaactaat 300
 ttccaaccct cccaaaaacc aatccaaaact ctaacaacgt cattgcttta aatactata 360
 tagccaaga aagaaccgac aaacctttaa agactatgca aaaaagataa ttcaaacaag 420
 atattgccaa tatgagggga gctattaagc aaggaccacg aatacanaaa tggacaccac 480
 catggcaccg acaattcttc cataaggag acaacaagn 520

<210> 20743
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20743

tcatctagta gttaatttcg gggacgaaat tcctaanagg gtgggagtat tgtaacatcc 60
 tggaaatttc taccgggagt ttacggaaac gatgtatttt gaatgattat atatatatat 120
 atatatatat atatataagt atatatatat atatatatat atatatataa gtattgttcc 180
 gtgtatatgt atagatatgt tcttgataga aataggaata gtgggggcaa gatacgcggg 240
 ttagactaat taaggaagag aaatccataa ctgggaggtt atgggttaat tcttaattaa 300
 ttagttaaaa atcattgttg tgcgtgcgac tntgaattta actaaaccaa cctctgaacc 360
 acgctcgng ttntattctg agncgtttga tatatatatn gcttgctttc gaanactggc 420
 ccangcagac gct 433

<210> 20744
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20744

tctccccat tttctataaa tagggggaga attgaagttt ataagggttc agccccctta 60
 ggcatttctc tctctctctc tcgaaataga tgaagaaaat tagttccgtg aagaaaattc 120

aagccgagggc gcttccgtaa catttccgta acgtttccgt gagtaattac tcgaagatcc 180
 tcgaccgttc ttcaagattc atcgtttggt ctctgttttc ttcagtcttc aacgggtaag 240
 tacctcaacc aagctttcat ttcatctat gtacccgtgg tgggccacat tttgtttcat 300
 gtatTTTTat tctcgtttct atttactttt tataccccct tttgacgtgc ttaagccatt 360
 tatttaagtc atttctcact tattctaana ataaaaataaa tttccaccga tc 412

<210> 20745
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20745

ttctttataa cacgcagaga ctaacgtcgt cttttgcggc ctctgtcaat cgcggccgac 60
 aagcccgttg acacgcagag atttatgtca tcttccgcgc ttacaagatc tgtcatactg 120
 agttttgagt cacgctgacg ggcggaaata cccgagtggg tatccgtata aactttttgt 180
 tgtttgtaag acgaatagcc tggtagcacg cagagactaa cgctgtcttc tgcgcccttc 240
 gtcaatcgcg gccgacaagc ccgtttacac gcggtgattt acgtcatctt ccgtgctcac 300
 aagatctgtc atactgactt ttgagtcacg ctgacgggcg gaaatacccg agtggttatc 360
 cgtataaaact ttntgcatgt ctgtagacga aaagcttgat aacacgcaga gactaacgtc 420
 gtctttttgga 430

<210> 20746
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20746

tttctcttta cagaatgcaa aaagnttata cgtataacca tttcggtatt tccgcccgtc 60
 agcgtgactc aaaagtcagt atgacagatc ttttgagcac ggaagatgac gtaaatacacc 120
 gcgtgtaaac cggcttgctg gccgcgaatg accaatggcg cagaggacga cgttagtctc 180
 tacgtgctat caggcttttc gtcttacaga caacaaaaag tttatacgga taaccactcg 240
 ggtatTTTcc gcgtcccgcg actcaaaagt cagtatgaca gatcttgtga gcgcggaaga 300

tgacgtaa at ctccacgtgt caacgggctt tgcgggcgcg attggcgaat ggcgcagaaa 360
acgacgttag tctctgcgtg ctatcaggac tttcgactta ca 402

<210> 20747
<211> 355
<212> DNA
<213> Glycine max

<400> 20747

tgctttcagt tttatatatt attgcatgaa ccttttgggc gttgcaaatt attttgatat 60
agattacatg tattatatgt aggattaatt tggtattttt tttttcacat ttaaatatta 120
aatctaaaat tctcatctgg gatcaatacc tcacactata gcgacaatat tagttattta 180
tcaaacaaaa tattgtattt gcagatatta cgcctttggc ctctgtttct gaatgaaagg 240
caactcttac ataaaaata aaaaaaaaaa aacttgcaat atgaatattg tgcacacttt 300
atgctaatta attttgggtgc ctcatgagtt tactattctt caactgagct ttctt 355

<210> 20748
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20748

aagaacgcga ctaacacaag ataagggtgac aatatggcgg tgcaatgaaa ggcataagat 60
acatgtaagt atgaaaactt tcgtctatta aaatattact tcaacaaagt gccaaaagga 120
atataaagac tttattaaga gtgatcgatg cctataatga ttctcataca attggctctg 180
aaacttatta tttgcctct cacaccatat attaggagct tcttacaaca tgacaacatg 240
ataaactggg atttgattgg attctcatct caatntatct ttattacttt actttactct 300
gttgggagaa ttcatgagta tggattaact atgaataggg gaacaagaaa ggcaataaag 360
aga 363

<210> 20749
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20749

agcttttctg aaacatcatc taacacatcc tttatgggag aaataacatt agactcatca 60
aaggaaacat gaatggatcc ttcaatagtc ataantctct tattgtatat tctatatgct 120
ttactatgca aggaataacc aaggaagatt ctttcatccg acttggcatc aaactttcct 180
aagtttcttt tccattatth aatacaaaac atttgcaacc aaagacatgc atatgtgaaa 240
tgtttggttt tctaccattg aataattcat aaggagtttt ctttaagatg ggtcttatta 300
aagccctatt taagatgtag catgcagtgt taacagcttc agcccanaag tattttgaaa 360
gtggagtatc atttaataag gttcttgcta tttcttctaa ngatctattn ttcctttcaa 420
caacacc 427

<210> 20750

<211> 353

<212> DNA

<213> Glycine max

<400> 20750

taaccagagt gcttttcttg tcagctttca aaagggttaga tatctcacta aaactgatta 60
aaccocatca agaaccctta cttgggtttta caaaaggaca agttcatacc tgcgattatg 120
tggaacttga gaccaccttt ggagtaggga aattatctca aatagtgtc gtccaatata 180
tcattgttga tgcaaacaca tcatgcaata ttctcattaa acgaccttct ctggatgccc 240
ttcgggcaat gtctttaccc cacatctagc catgaaatth cccaactcca aacataatat 300
catcaccatc aaagcaaata aaaaagaagc ccaggagtgt tatgccaaaa gcc 353

<210> 20751

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20751

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aaaggaacaa ggtttgccat cttatthtga aatggctthc caaattactt atccctatth 120
tggaataact atcctaaaat atgaaaaata tgaaaatcat atthtggaat aactattata 180
gaataagtaa tttagaaacc tathtcagaa tatatattct agaataaat thtcatattc 240

tgaattagtt attctggaat agggatacat ttctagaatg gtcattctgt gataaagaga 300
 gggtaatata tgaatnttta agcatttggg ggtgtagcgc aaaaaatatg gtacaggaag 360
 ccattgccca ttatgaacat aatgatgatg gatc 394

<210> 20752
 <211> 172
 <212> DNA
 <213> Glycine max

<400> 20752

tgctgctact gtcactacac ttgcattttt gacttctcga agtgcgataa tcgtttgaac 60
 aaatattaga tgcttactaa acgggaaaaa ttggaatgct gagatagaac agaattggaa 120
 tgctagaaaag atatatccta aatgaatttt tatcaaaca aa 172

<210> 20753
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20753

agcttgttct ctggggttat gatttaaaat actttatttt aaatgagtca aattgagcct 60
 ttnttttaga ggggtcaagtt gggctacaac ctgttttttt tataattaaa aactgccttt 120
 tttgctatgg atgccttgct gcaatccatg cttctggcat ctgccatggc actgccatac 180
 aatggcattt tcgtcaaaaa tntgccagc cataacacca tggccgcaat ttactagcat 240
 tggttgttag ctgattcaat tatttgaatc aattgacaat tcaaaatcag cactatctta 300
 nggataatag tcctagacaa acctaattat ggcattgctag actagatcac aagtcaagca 360
 aatgttcaaa cttcaagtag acanagtag cataactagt aatacatgga tgtcannaca 420
 gtattcctc 429

<210> 20754
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20754

taacctanat ggctccatt ccttccctaa accacattct ttctgaattc tttagtgtct 60
 acaccttctt ggcgccaaat gaacgtcttg ctcattctcg tcttccaatt aaattaatgt 120
 aagaactaag aagggttctt ggtatactct ctctaactct aacacaacac acatgatgta 180
 ttagtattag tttaaattta gtgaaaatta taaaataaaa taaaaattca acaaatgtta 240
 agttgaatcc acagaactta tatttttaac taataataaa agaacgtgtt taaaagagct 300
 tgttggtaat attttttcat gtgtaattaa atgtaggtaa ttattataca agttcattta 360
 agacattgtg ctgtttggtt tagatttaat ttaatatact gtgaatatca acttgacatt 420
 ttattttt 428

<210> 20755
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 20755
 agcttgtag ctcatgttaa aaaaatttgc attagagagt ttctctttct tcgggtgtac 60
 attcctttgc cataacaata actacattct ctgttcaatt cttgcgaact ttggtgtctt 120
 ttcactttaa ttctcgtgag tcattccgtt cttattaggt atctcaatct ctctatctga 180
 gtcatttctt atttggtctt tgaatctctc tattcatcgc tgttcacttc tccgtttata 240
 atttccttta tgaacatgat aggagtgtat aggggtccaaa tttatttgta tggaaacaga 300
 tagcttatgc agcacaaaaa taatctatat atttgttatt taaacaaaaat atcaaaattc 360
 caaccttagg gaaacaaata aattaactaa tcccactata atgtattaaa agcaagtaat 420
 taacttaaag ggttgaagtc 440

<210> 20756
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20756

tatcagtcaa gcccatanat aaatgtggca aaatttgcca tgttataaaa ataagggtcga 60
 aatgtggaat taagtctact attaatatat tatttatcta aatatataaa tacatagtgt 120

ttttttactt taaataggat atcaatttta tatttattag attcaatcat taaaaactaa 180
 tttttttaaa cgggggaact ttttggatat aaaaatctat tgtagataa aaattaattc 240
 ctttaaaaaa gataacgcaa atattattat aaagtctata catatatata cattagaata 300
 taccttaaaa aatttattta ttntattatt atctaaacaa ttagtatata taaatattct 360
 acaatagaag aattccaata tataaatata tagtacatag atnntaatat atgtgtgagg 420
 taattctact ttntaaatat t 441

<210> 20757
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20757

agctttttaa gtttagcatta natgtaaact aggcgaatcc taagagtgtt tggatgacca 60
 cattcaaggt tcccaacaaa aactcacta tcctaaggaa gaattgccta aaattattac 120
 acacaaatgg aattntggta acctattgga ggctcccaac acacttccat tgaaaggcct 180
 ttttgttaca aaacttgaaa gcaatgaagg taagtaaatt gcaaattaca aaattacaaa 240
 atggtcctca attntgggtg ttgttctctc tttgggtgatt cactcaattt ggagtgcctc 300
 ttagtccaat agctcttaag gtggttggtt cctttcttct tgactcanat tcttcaaggc 360
 atggcaccaa tctccttcc aattccctat atggcaaccc acanacaagg aaacaaagag 420
 acaagcaata atc 433

<210> 20758
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20758

cttgtgcatt caatatcctg atgagggtgt tccatatggt cttatgactg ttctaataka 60
 tttgtgccc aagtttcatg gtcttgagg tgaagatcct tataagcatc ttaaggagtt 120
 ccatattggt tgttccacca tgaaaccccc taatgtccaa gaaggtcata tctttctaaa 180
 ggcttttccct cattctttgg agggagtggc aaaagattgg ctacactacc ttgctcccaa 240

gtccattttc agcanggaca ccttaaaggg tgttcttgga gaaattcttt cttgcatcta 300
 ggaccactac catcagaaaa gacatttcag gcattaggca acttagtgga gaaagcttat 360
 atgaatactg ngtgagattc aagaaactat gtgccagttg tctcactac cagatttctg 420
 agcagcttct ccttcaata 439

<210> 20759
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20759

agcttttagnt ttatatTTTA ttgnatgaac cttttggTcg ttgcatatta ttttgatata 60
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 atttaaaatt ttcatctggg atcaatacct cacactatag cgacgaaatt agttattttat 180
 caaacaaaat attgtatttg cagatattag gcctttggcc tctgtttctg aatgaaaggc 240
 aactcttaca taaaaaatan aaaaaaaaaa acttgcaata tgaatattgt gcagacttta 300
 tgcntaatta atttggTgcc tcatgagttt actattcttc aactgagctt tctttttgca 360
 tgtggccaga tatgtgatgc anaagagaca attatgacta tatgacttac ggatgtcaaa 420
 aatattat 428

<210> 20760
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20760

gcttgcaagt catcatctta tccacaagaa aaggagagn ntattatttt tcttatccta 60
 aagaacgtga ctaacacaag ataagttgac aatatggtgt tgccatgaaa gtcataggat 120
 acatgtaagt atgaaaactt tcatctatta aaatattact caaacaaagt gccaaaagga 180
 atataaagac tttattaaga gtgatcgatg cctataatga ttctcataca attggctctg 240
 aaacttatta tttatacttc cgttcataat tagtagcttc ttacaacatg acaacatgat 300
 aaaatggtat ccgatgtatt ttcattctcat tttatctttt attttttact ttattttgtt 360

ggtagaattc atgagtatgt attaactatg aatagttgaa caagaaagct aataaagaga 420
ccagatccca aatgagataa gaaaaaaa 447

<210> 20761
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20761

agctctataa gttcgggtct gggagacaaa tgtcaagtgt tcgcgatatg cgaagatgat 60
gttccgagta ctttggattt ggtacgacca tgccctcctg atttccaact gggaaattgg 120
cgagtggaag aacgccccgg catttacgca acgagcataa tgtaaacctt tacggttnta 180
aaagctctat agttgggcct aggcntaga gtttttcctt ttgttaaggc tttgtgtctt 240
ttgtttttga atttataata caaggatctt tcttcatctg ttcctatgtc tctaccatt 300
ctcattcatt tgcattgtta cttctttntc tgaaacggca gatccgatga cgagtcccc 360
gaagg tacta atacctggga cccgcctgtc gacttcgagc aagaaatgaa tcanacggaa 420
gatg 424

<210> 20762
<211> 428
<212> DNA
<213> Glycine max

<400> 20762

gtatgccga gtcattcatc cctatgagat gttgtttatg tattttcgat cagaattgcc 60
attccttgga ttatagggtt gaaccaagct catgctttta caaaaagggtt catcaagtca 120
agttgaaata tggaagtaac cgtcttgcaa aattggggca aaagatgaat cgagtcacat 180
cactgcttcg totactgcca aacatattta ggattattga tgtccttggtt acttccagtt 240
tcaccttgac aaagagtcac ggccatgttg aaaatctaaa ttgattcaac cccatatctt 300
gcgtaaaaat tcgcaatact tcaactgtac atcattcgca tgcatacatg cttttcattg 360
gttgcatcgc tacgtgcatt ctttccttga aaaataaaat aaaatgaact taatcattgg 420
tataaaaa 428

<210> 20763
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20763

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 gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtgaaa 120
 aattaccatt aaaggacctc attgaagctc aaagatctag catccataga agccccacaa 180
 gcaagcttcc atcaagtggg aatcagagca caagggcttc aagtaggtgc tccttaaacc 240
 tccattaatt ttttgcttta ccttctcttc cattgttggt tcatcatttt tctccatgta 300
 tctcctcaca tgtcttgtgc taaatgttgt taacatgaat ctttagagtt tccaccgatt 360
 aaacttgcta taaagctaga tttgatntct atgggtca 397

<210> 20764
 <211> 111
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20764

catgaaaatg ccgtaactag gaagtgatcc tangtcgttt cccaacgagc agtgacaagc 60
 caaatgttca taatatactt gcagtaacag taacagtaac catggggggg g 111

<210> 20765
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20765

ttcttttata tgtgaaatca ggtgcagcca tttcccttag agtcctctca cggagtggag 60
 gttgggtcat gttctcaaaa tgctcaaaat caaaatgttc aaaattataa tgctcaaaat 120
 caggatgctc aaaattacca accacaaaat gctcagctc accaataata gaatgctcan 180
 gatgctcaaa aggtacaaaa tgatgcctaa ctaatctatg aaatgtgcta tctatctcan 240
 gatcaaaggg ttgtaagtca gatggattgc ctccagtgtg gtgtaggttt gaactacagc 300

tatcctcana tgatatccaa atgacttgaa attttgtgag caacacccta aaatcat 357

<210> 20766
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20766

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gggttgagaa atgaaattga gaatgaggta aatttggagc aaactctcaa ctacacaag 120
tctataacat caatttaaac ttgctcaaac tggatttaca cctaaaattc caccgaatca 180
aaatttgact cctcaacatc caattttacc ctagaaatga ctctttggtc actttgggtca 240
tttgtttttc ctcttgccag cccaagcttt ctcataagtc ctaaatgaca tttcaaacta 300
ggaataactc actttaacct ccaaatacca ctaaatccag atttggcctt ccaactctca 360
aaaactcact ctttttttnt cactcataac accatattct cactgtctaa ccctagggtta 420
actctaccct tcattcct 438

<210> 20767
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20767

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ggtagcagc ctattggccc aacgtttcct atgacaaact ttctagcatc catttggtaa 120
agtctctgcc attccaatca aacatgccaa gttacacatg acaaaaaata aaataaaata 180
aaatacagta aatntttggt tggattnttt ttaataaac atttataaaa gaaaaaccca 240
aaagtaaact gaaataaact tcttgccctca tcaatcaaaa tgaaataagt taatttataa 300
aaatccttcc acttaatttt ttcaaaaact gattntaact tataagagaa gtttaactcg 360
tgtatcttnt ttatcttaga ataaggaaac aagaaggtaa nataaaacaa tnttttataa 420
atngatataa cttat 435

<210> 20768

<211> 429
 <212> DNA
 <213> Glycine max

<400> 20768

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 caacagcagg agctggaaca tcaacagagg tgacagtagc caggaaatgt acagggacag 120
 aatgtacatc agccttattc ttgcaagggg aaacagcaga atcagaagaa tcgtgcagcc 180
 ttaaataaag aaaggaatag agacaattgg atccaacagc accttgaagc aaaatttcat 240
 gagtctcctc aatttgccag acacaaatga ggatgaaact caaagtatac tgaattgtct 300
 ttagcaaaact gactcacact cgacagggtt ttagtaatgg caggaacatg gagtaaatta 360
 ttaagtttaa aggagacttg aaattaaagg gagagatgat cgatgaagaa ccagaaccct 420
 taatttgca 429

<210> 20769
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20769

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 tcagataaat gtgaggtcct tcaccattag gcctcttgta atgctccgtc aacctttcag 120
 caaaataaag aggactctcc cggccaacat aatcttttag aatcccagcc agttctgtct 180
 gcaactcaaa atctaagaaa atttccattg tttttccttc caggaaacta catttcatgg 240
 tttctgaatg tagttaacat acaaatatga gagatgtgct agtatgtang agagacagan 300
 agttattctg aatctaattg agtgaagatt aacatggagt tccaaattgg ttagttctgt 360
 atgaaaactg aaaaatanaa gactaaagaa attctgaaga atgaaatgat acacattcaa 420
 acagtcacaa aat 433

<210> 20770
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 20770

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 ttaagcaact ccttttgcaa tatttctatg agggacttaa caacatggag aggagtatga 120
 ttgatgttgc cagtgggtga atccttggtg atatgactcc tactgaggct aagaatttga 180
 ttgaaaagat ggcttccaac tccaacaat tcaatgcaag aaatgatgtt attattctta 240
 gaggagtccc gacgtggcac ggattcatct tcactacta aaaataaaaa tcttgaagga 300
 aaacttgatg ccttgggtcaa cctaataact catcttgcca tgaatcagaa atctacacct 360
 gttgcaagag tctgggctat 380

<210> 20771
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 20771
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 actttgtact aaataaggct gagaagaaga agcagtagaa tcctccctct gtgaacaccc 120
 aacatcagac ttgcgatggc tgtaataaac ccagtcttca tcattacaat ttactctcgc 180
 attggaatga aaaaatcccc cagcatttgc agaagccagt gttccataac tgaatgactt 240
 cctaacactg gaatcctctt tccccccatc tgtttcacct tcctcagaat catcaagtga 300
 ctcagaatcc aaaggataat tgtattcacc atcctcactc ctagaagcac cttcttcact 360

<210> 20772
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 20772
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 tagtataaac agaaaagatc gactttgatc agtatatgtc ctatggcaat ctattaaaca 120
 atttaattaa ttaattattc gacagaatac atatctgcaa gtttcaatat atattttatt 180
 caacccaaaa cttatctata tcaggaatat gagtaattat gtttcaacac cataaatatt 240
 taacaaaaaa gaaattagtt cgatatagct ataactaaat catagcagat tatcaatcaa 300
 gttacatgta gtagtgtatc ctattgaaat gaaactatct ttgagagtct tatgagctaa 360

gcacgttaga atttgaatt agggatc

388

<210> 20773

<211> 257

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20773

agcttgtgca gagcaaatga gaanaaggag taacaaatgt gaaagcaaga gcccatttct 60

agggtaaatg ggtgttgaga ggtcaaattt tgaatagggtg gagttttcac cttaaaacca 120

gtttgagcaa gtctaaatca atgttataga cttgatgaag atgagagttt accccaaaat 180

taccaattt gtgcattgct agtcacgggc agggtagtac atctcgtgtt ctaagcatta 240

tctagcagat cccaacg 257

<210> 20774

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20774

tatgctgcaa acacttataa tagtatctcc tcaacagcaa atccaacaac aatagaataa 60

ttatgacctt tcaagcaata gatacaatcc aggttgagg aatcatccaa atctgagata 120

gacaagtcc cacaacaac atcagcctgt cctcctttc caaatgcta ctggtccaag 180

caagccatat gttcctctc caatgcaaca acaacagtag cagtcacaac aaagacaaca 240

agcactgatg cctcctcaa ccttccttag aggatttagt gaggcaaatg accatccaga 300

atatgcaatt tcagcaagag acaagagcct ccattcagag tctgacaaat tagatggggc 360

agatggctac tcagttgaac caagctcaat cccaaaattc tgaccaattg ccttcacana 420

ctatgcagaa tccg 434

<210> 20775

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20775

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cctgatcgct aagagacagc ttatccgtgg ctaagcatga cctattgtcg ccaagctcaa  120
ttccttaagg ccataattga ggtccatgac actaagcacc agtcatggca gctaagcgag  180
attaattgcg gcaatatgag cgctaagcga gtccctctcc actaagtgca tgctcctctg  240
tacttaagat gcatcattnt agctaagttg gctagagcct tgcttagcga gagttgcagc  300
ttttctaata tacaaaacctc tctaagaaga cgtaccctcg tgctaagctg agtntctgtt  360
aaaaaaaaac tgantttgaa tntgaaacgt cagctaagct cacgggt                407

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<210> 20776
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 20776

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gacctataaa actcagctta gagctggaga aagcttgacg atgttggttt tcttgcccaa   60
ctcccttgag tggcatttgt attgggtgtt atattgaatt ttcatctta atccatatca  120
tatcttttct gcatcatgca tcatcatgag taagtgagaa gaaaaatttc taagtttgaa  180
aagtttcttc agaaggcaaa actctttggt ttaatcgatt atagccttat cataatcgat  240
tacacaagtt ttctgagctt gcaagttatg tctcgtattg gtttaatcga ttacaacctt  300
ctogtaatcg attacatagt tggttttgag actgtcgcaa cctacccttt tgc                353

```

<210> 20777
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20777

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tgcacctctgt ccaatgccac aaccaaaggg taactaattg caaaccctag ctccaatcgt  120
tgcaacattn taccagctca accaatcaat acacgaatag agggcaattt cacacattaa  180
cacagaanag taaatatata tataatatat atatgtgtgt gtgtgtgtgt gtgtgtgtgt  240
gtgtgtgtgt gtcacaaaaa aagatatgga tgtgagtgat tattgtgtct tggttgttaa  300

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ggaaataata ttatggtgat ggccccacac aagcttcttt tcaatttgta taagagcact 360
tcaaagtcac agcccacttg cacttcatgc ttttaggtaa tcaatcata 409

<210> 20778
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20778

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ttagagttgg ataccatct cctagaaaag aaccagggtg gttgtgtgtg gaaagttcat 120
tccacaagat gttgcaatca agataagaaa aaaaaaaaaa ctaactgtag agttgagata 180
ttagacttac aatttggttt cttccctaata cttttttttat ttattttctg atttaaaaac 240
aaactctaaa ctcaagtataa cagaacctac ataataataa taataataat aataataata 300
ataataataa taataataat aataataata ataataataa taaaacaaaa cccaaataat 360
tcccaagttt tcttccctaa tccctttttt ttctgnatag aaaacanact aagaaac 417

<210> 20779
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20779

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acgaaattta aggaataaaa tagggagaga agtggaactt tgaagtatat ctcaaacagc 120
tctcattcat ccaaagttac aacaagtgtt acacatgttt ctatttatag actaggtagc 180
ttccttgaga agctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
gagaagttag agcttagcta cacacacccc tctaataact aagctcacct ccttgagaag 300
cttctttgaa aagattccta aagaagctag agcttagcta cacacacctc tctaataagct 360
aagctcacct ncttgagatg agaagctaga acttagctac acacccccta taata 415

<210> 20780
<211> 422

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20780

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aagagagctc tgaaatctga agtttaattt tcaaagatgc aaagttgaaa aaattgcaca 120
cacatgacct ctatttatag cctaagtgtc acacaaaatt ggaggggaaat ttgaatttct 180
attcaaattt cacttgaatt tgtggagcca aattttggag ccaaaatttc actaattatg 240
attagtgaat tttaacctgg ttctcccact aatccaagat gaagtccaag attctccact 300
aagtgtgctt aggtgtcatg aggcattgta agcatgaagg acatgcacaa agtgtgacta 360
tatgatgtgg caatggggtg tagcaagcaa attctcacct tcccctctna aatttaattg 420
ga 422

<210> 20781
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20781

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ctttggcact tctctctctt tcgaatttgc ttaagaaaat tgtttccgtg aagaaaatcc 120
aagccgaggt gcttccgtaa cccttccgag atgtttccgt aagcaaattc gtgaaggttt 180
gcgtccgttc tttaccgttc ttcattccgt ctctgttctt caacgggtaa gttttcgaat 240
ccgagacttt caatttattt ctgtttttt taagctntca tctttatttc gntcattntn 300
tatttctttt cttacgtctn taacgcgcct ttaccgttta ttttaagccgt tntctcacct 360
aataaatgat aaaatgaatt tcaaccgac atttgtgttg aatctcatta atcactntta 420
aacgaaatct atcgat 436

<210> 20782
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20782

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atggtagaag tatgctaagt ttggaaggag tgatgtgggt attgcacgat ggttgaagta 120

tgctatgttt gagtgggtgt tcgtgtttta tagtttttta tgctaagttg ctacttctgg 180

tgatttgtct ctgctttttt tctgtgtgca tcccataccc agcacaaggc cacataaacc 240

caatgctcaa gctaccaaat tgtgatttca gttataactca gatgctccac attgtcaata 300

aactacctaa gctactcttc tcaccaatga tgttgggtcta gttctgtatg gctattctgt 360

gatgtatatt tcacttttac tattactttt tctcactaga aagttgctga ctatccacaa 420

gtttgttgac tatacctgta tgct 444

<210> 20783

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20783

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tctaggacac tggagagtct caaccccgcc attaatgttg catatgtgaa gaagaactat 120

tggaatcttg atgatctaata agtgactttc agagggccta ngaaggccaa ggggaagaaa 180

ttgaagactc tcccatcttt tgagggtccc tctaccacat cagcaccaac ttcttctacc 240

ctaggtactt ctgctccatc accaacttct ttcagatttt tcttttacac tagagatgct 300

acatgccatg atgcagagcc tacactgagg gcaggtcatt attatgcaga gcttccagag 360

cttngnccta ccatctatca tgagcatggt agactntcac attc 404

<210> 20784

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20784

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tctgagagac catacaagtt tcctagcggg ttctaattat atgggccatt aagtctatca 120

tatgctgaca atagccgaga agcccatgaa tttcttcggg gccggagtag gtgtctgcca 180
 ttgccttggc cttggctaataaatcgaggaa gttcttgact cccgttcaag gtaagagcaa 240
 acccgccatc ccatggttgc ctcttggtgt aaagagtcga tcacccttcc tctagcctct 300
 tttttcgcgt atactanggc atactcgtcc gcgaccctat gctcgtgggc cgtggctaga 360
 ctttaactctt cttggtactt ggcaatgata gctagcatgt nggtctccgt ctgcataaa 420
 cgctg 425

<210> 20785
 <211> 338
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20785

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 catattcttg ataaattttg cagcttcac atttatgcaa agcactgtca aatctatgga 120
 atcttatgga cacatcatac agtgagcgac aatctttttc ccatgtaatc aatttggtgt 180
 cactctcatc tgcagaagta acagatccgg gaagtcttac tctagaaata gtccagcagg 240
 taggtatcta acttaaata tccatagaaa atatcgga ctcaaataa taaaaagtct 300
 acaactttnt acaagactga agctgaagta aagagact 338

<210> 20786
 <211> 338
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20786

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 tgaactatgt ggatatggct tcttgtgcat taaaaatagc ccagtaaaat tctgaagaac 120
 tacttactac cttggtattg agaatgaggg gttgttctgt tcccagcttc ctttttctt 180
 tccgtatcca ttatctattc cctctatccc accttgctaa aattcttaag ctttaagctgc 240
 tgaatttctt ttgttcatta tagaaagaga aggaaatata ttgatttact cctgagaaca 300
 ggggttgacc ggatcaagaa aatgtttgga atcggatg 338

<210> 20787
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20787

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 ttgaatgtta ttgtcatttc acttttcata gagcttccgt tttcaatttc gagcgtctcg 120
 atatattaaa gggctcaatc ggacattcga gtaaaaagtt attgtcgttt gattttttgta 180
 agagcttccg ttttcaattc cgagcgtctc gatatactat gggacacaat caaacatccg 240
 attcaaaagt tattgtcgtt tgaatgtgct cagagcttca gttttcaact acaagcgtct 300
 cgatatatta cgggactcaa tcagacatct gaagttaaatt tattgtcatt tgacttttca 360
 tagagctctc gttttccata tcgagcgtct tgatatatta at 402

<210> 20788
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20788

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 atcgagacgc tccaaattga aaatggaacc tctaagaaaa gtcagacgac aataactttt 120
 aactcggatg tctgatcgag ccctgtatta tatgaagacg ctcgaaattg aaaacagaag 180
 ctctaagaan agtcaaacga gaaaaacttt tgactcggat gtccgattgt gtcccgatg 240
 atatcgagac gctcgactga aaacggaagc tctgagaaaa atcaaacgac aataactttt 300
 aactcggatg tccgattgag ccctgtatta tatcgagacc ctcgaaattc aaacggaacc 360
 tctaaaaaag tcaaacgaca ataactttta actcggatgt ccgattgagc tctctaatat 420
 atcgagacgc 430

<210> 20789
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 20789

actcgacccg gatcttaagt cacctgcggc atgcattctt ataagtcaat aagtatatca 60
gccaccttta cacaaaatta ataataatcc taattgtcat gtcaatggcg taataataat 120
aataatgata ataacaataa taataataat aacaatcatt actattatta ttattattat 180
tactattatt atcaatatta ttattattca cagaggaata ctgccgatat agttctttac 240
aaaattaaat cattttgaca atttctcagc gaattaagtc accaactaaa aaaaaagacc 300
tcatattcag gtaataatct actaatgcta ta 332

<210> 20790

<211> 531

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20790

gcgcaccccg ancaccacca cacatcgcg cgccatcctg cgaaaaata tcgacacacc 60
cataannnca aaagaggcgc aatgaacctg agacacgcan nccnggaacn naaaaaacnca 120
ccccaanana nnnaaangag nnaagggcgc tataatatat taacacaggc aagngggcgc 180
aacggggcgc cacaaaaata aaggacgctc cccaataccc ggcaagtga cagagccagga 240
aatgcgagaa caccggaaca caccctctta attgcgggaa taaagccgca gcaccacaca 300
cgaacagggc gaccacagac gtccatcaga ggaagacatg gccacgactc ccataagaaa 360
ttccaccac cccgcccgc gcaaaccaca tgtggggacc ttaccacaaa acaataacaa 420
cctcgaaacc caccgaacc gaaccccgcc gcaacagaaa caaaaaaac ccaacgggaa 480
aaccaacca actgacacca aaacaccgga ccaacctaac caagaaaaa g 531

<210> 20791

<211> 370

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20791

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tcgattgatt taatctctgt tcttcaattt acaactttga tcgaatcttt gttgcttctt 120

cctaattcga gttgttgttg gtactctgat tgcagcagtg gacattgttc gagattgtat 180
ccctagactt tgttaattta gggctccacc atgtgggtgtt cttctatgca cttgctaatt 240
cactangaaa aaaacattat aagcctaacc caccatctca ctgcatacac acaacaataa 300
tgcanacccc acaacaaaagt tcatcaaata aaccncaaaa gaaatcaagg anaaacatat 360
aaccacacg 370

<210> 20792
<211> 223
<212> DNA
<213> Glycine max

<400> 20792

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ttttggaaac agcacaagtt attttttttt tttttttttt ttgacatac aacttaattg 120
gtgtgggggc tgatgcctaa cccttttctt tctttctaata gactttcctc ccccaaaatt 180
aaaagaaaat ttccttgaac catatgctct cctagaatct aaa 223

<210> 20793
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20793

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ctgggttgggg attacttatac tattcttgaa agcttttgat ttggcttgta cgtaatacat 120
gaattaggtt gtctttatatt taatgttcaa cctttttatc ttgggttcatt tagttatcta 180
caattaatta gtatagttgg gtaacaaact aaacaagtta ccataatgtt tcattctatg 240
tactgaattg gaaataatta gctatttctt gggttctatta gtaagtttat tttttatttg 300
caaaaatatt totaccaacc aatttttctt ccgtccaaac accatgatga aagtttttat 360
tcacagtaat tggaataatac ttctataaga tgacacctag tanaaaagtnt tataaatgat 420
aaattatgat t 431

<210> 20794
<211> 409

<212> DNA
 <213> Glycine max
 <400> 20794

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 caggcgagct cctgacagtc aaccaataaa agaacaaagt ccacgaagca aggaggcttg 120
 tgtgggtggct gaccagctat ttatcttagg tggtatctga aaattaccct ctggtaatcg 180
 attaccattc gtgggtaatc gattacaggg tttaaaaaaa tggagacagg atgttaagta 240
 gcttctggaa tcattaccaa ttgtgtgtaa tcgattacac agtatgatag ggcactggta 300
 atcgattacc agttgtgtgt aatcgattac atagtgttac ctgctactag taatcgatta 360
 ccatttatgt gtaatcgatt acacagtga acttttagatt ccaactgtgc 409

<210> 20795
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 20795

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 accatgaaga tgttaagtgt acgagtgtatt ttacaaaaga aggttgcacc actcaaagca 120
 ttcatcatac caactatctt agggacttgg tgcctaataa tacctatctt gggcaccaac 180
 aaggcacaag gatttaagct cttgcgaacc aaaccctcat ccaacaactt ctttacttga 240
 ggaataaact caagcccaag aggtgtggca atactagcaa atgtcttttt acaaaagaga 300
 aaatgtggag gttgtctaaa agggaaaagt tctttaatgg ttgtctttat ttgtaaata 360
 gtttccttct tagctaacct cttggaggag acacttacct tcttacactt ctcttttacc 420
 ac 422

<210> 20796
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20796

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aacaagtttt ccacatccac aatgcgcgca taaacccacc atcccctggt gccacactcc 120
aactgagctc acgtacttcc acgtagccct tatcctcggt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc acaacatcca agcaaaacaa cattcaaaca gcacaagcta 240
tccagccaac aaaacagggc aaaggcagaa aactctgccc aaaacaccaa ccaaatcaca 300
gcattttctca cttaaagacc ccagtaacaa ttccttcgat ccaattcggt aaccgggtgga 360
tcgactccaa aatttttactg aaagtctata gtacataagc ctaca 405

<210> 20797
<211> 383
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20797

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ggtaatcata agtgccctan ggcaaactct cagaccatta atagagttca tctccactgc 120
tctactaatg gaggccgaaa gagtttcagc acacaaaatg aagtatcctt aaaagttcct 180
cattgcatac canatttttc ttggatagtt ggatgaatat ttctctttat gcattcactg 240
ttgcaaataa ataaaaggga atgtaaatac caaacaata catatacgtg ccaataatct 300
ccatgcataa tgtctagaat cttttcgctc aacattnttt tataagaaaa gttgatgaat 360
gacactatgc ataactcatt ttc 383

<210> 20798
<211> 433
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20798

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catatgcaac ggtaattttt agaggtttct taccctatta tttggtctaa ttattggagg 120
caaatcttgt taagcacctg gtgcttaaaa tatctccatt gcaatatctc ttcctaagtg 180
gtcctatttg tacacatttt tattttttatt tttatttaat ttaatcatct cataagaatc 240
taactctcca ccaagctcct ctacaaaaat aattaaatag gtcccaatgt tacattaata 300

attctgcatc cttacatttc atcctttaa atgtcccaat atatatatat atatatatat 360
 atatatcatg ggtacatgaa attgttaatg aaaattatct ctcttaaaga gtacttttaa 420
 ttntaaaaaa ata 433

<210> 20799
 <211> 413
 <212> DNA
 <213> Glycine max
 <400> 20799

agcttattgt aacaaaaagg aagatatttt tcttatcttt ccaaggacta ctcacacggt 60
 caatttgaag ttatttagtg tctcttaagc actgcacaag gcaaataagg caagtaagca 120
 caaaatatga aatttagcta taattctcaa ttaattctcaa tcatatttgc ctaagaccaa 180
 aactgaatta aggtgagtaa ataagagtca aggagatagc aatgagctaa gaagaatata 240
 aaaatattca acaacaaatg ctcaatcaaa gtctatctcc tatcatcagg gcacccacca 300
 agatcggaag ctgtgtaccc tacaacctcc aagttgtcaa ctctcatata cacaagcata 360
 gactccttag tcttctacaa gtacctcatc accttcttag caactatcca tcg 413

<210> 20800
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20800

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 caattgatgg agctgaaata aaatcaatcc ataagaaaag ttaacaaaat gaatgaattt 120
 caataagatt aagataatta ataaccaacc aacatcataa caataagaaa atggaataac 180
 cccaccagca atcaagcttt ttggtgtcaa ggtgaacaac aaaaaagcaa caaaaaaaaa 240
 aggtgtggct aggggaagga aatcattaat taagcattga tatatagaga gaaaattacc 300
 atgcaaaaana gacaaaaagg cgcaagaaaa gaattctcct tcttgtagggt gcatangaag 360
 gaaatgcaat gttgggttgag aaggagtgat t 391

<210> 20801
 <211> 408

<212> DNA
<213> Glycine max

<400> 20801

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agacactgac atatgttaga tatgattgat atgacatgac tgtacgacat taaaattaaa 120
cacaatactt aatgacatgc gatattacta taaaaacatg tatgttaaata tataattcct 180
gtgggtggga taaatatatg cgtacgctta aatgtcacga gtggcaacca gccctaccac 240
tattaataga tagacatata aagtgatgtg actagttgtg tataggaaca tgaagttatc 300
tccatatcaa gtatcactta cttagcacct gacagatata tatattgttt gcatacgctc 360
gaatgacgta cgtgaaagag taacattcac ttatatctga acactact 408

<210> 20802
<211> 413
<212> DNA
<213> Glycine max

<400> 20802

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gtcagcagag gagcacaaac cacaaacctt tgcgacaggt acagatttct gattcaaggc 120
cagctgggtt accaagttag ccaacgcac cagtttgctt tcaagcttct tagtttcaga 180
tgatgcagat gggttttag ctacctcatg cactcctcta atgactatgg catcatttct 240
ggcactaaac tgctgggagt tggaggccat cttctcaatt aaatttttgg cttcagcagg 300
agtcatgtct ccaagggctc caccactggc agcatctatc atacttctct ccatattact 360
gagtccttca taaaaatatt ggagaagaag ctgttctgaa atctgatggt ggg 413

<210> 20803
<211> 414
<212> DNA
<213> Glycine max

<400> 20803

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caatgatttc aaaacaaaac gatgttggcg cttagcgcac cctttcccg c taagctcagc 120
ttgaaagctc aacttacaaa atgaatttgg gacttagcgt agaagacgc gcttagtgca 180

actataataa attttcatag agaggaagtg gcgcttagtg catcatccac gctaagccca 240
 ctgcttaagg tgcaacttac agtgaagatg ttgggcttag cgcaatgatg tgcgcttagc 300
 tgaaccattc acccaatcaa tcaggggtct ttgcgcttag catgagcaag ctcagcttat 360
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<210> 20804
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20804

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 ctcttggtaa ttcaagatca cttgaaatta gtgaiaaaaaa ttggttccgt gaagataatc 120
 caagccaagg cgcttccgta acgtttctgc gggtgatttc gcgaagattt tcaaccgttc 180
 ttcgacgttc ttcgttcggt cttcgtcgtt cttcggtctt caaccggtaa gttcctgaaa 240
 tgaactttt caattcattn tatgcacct tggtggctct catttgtttc gtgtactttt 300
 attctcggtt catttacttt tcgtaccnc ttttgacgtg ttttagtcat ttgcttaagt 360
 cattntctcg cctaataaan aaataaaaata cattttcacc gatca 405

<210> 20805
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20805

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 cctcaactaa tttattattg gttcctatca ttctataaat gcataaatta taacatgttt 120
 tcggtacatt ttattgaagt taatttaaata gaagagtaag ttttttaaata ttaatatcta 180
 gagtaaaacta cacatatcat ttctgaagtt tgactttatt atatctaata tctctccatt 240
 tttgaacttt acaiaaaaaa tcctttaatt ttttagattt gggttactct cttagacgta 300
 aaaaaagaat gttacaccaa ctcttcttta attangagtg tgtaaagcaa cgtaaaataa 360
 tgaagaaata tcgggtaata caagataaat gagcagaaaa tgagata 407

<210> 20806
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 20806

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ccacctcctt gcatataagt acattattca acattggact gactatctaa agatggatgt 120
taatgctctc tctgacctgc atgaatactc ccttgctcga gcctattgga ttctcactat 180
acctaataatt catttggtga gagacctaca tcgcaccgta ccactcatct cgatcatatg 240
actgtgtcgc gagcagtcga aaataaccaa ctatctcatc cactactaaa agcctctact 300
ggagagatat ttgcaaaag ccatactctgg attgtgaaga ctagttcctt agtacaatta 360
tcgataaaat ctattcgttc atcacccttg ggatgacaca taagtat 407

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<210> 20807
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 20807

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ttgcaaaggt taacatccct attaataaga aaagaaaaat tggaccaacc gttgattgtg 180
tttttggttg atattttttg catagtacta cttatagatt cttgggttgtt aattctaaag 240
tgttcaaaat ttctaataat actattatgg aatctagaga tgacactttc ttgaaaatg 300
tttttccttt ggaaaaaaaa aattgtctaa acccgtttgt gatacttctt attctgattt 360
gtcatcttgt agtaattcta ataaggatgt tgtttttgaa cctata 406

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<210> 20808
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 20808

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 agtcttgctt ttctagttt gggtttttaga gctcggactt cttcacctc ttccggagct 240
 tcgaagttct cctcattgat aattttcaac ttggagagcc aatctaacc tcattgtacga 300
 actttcagcc attcatgata accaccgatg atgccattac ggatgcccct aagttcttta 360
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<210> 20809
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20809

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 gttgtttgtt ctgagaatga cggtaacaa ggaattaatt gatcacatta gagatcttga 180
 cacaccaaag gatgtatggg agacactaga aaaactcttc tccaagaaaa atgttgctcg 240
 attgcagttg ttggaaaatg aacttgcac caccagtcaa ggaaatctta caattgctga 300
 atactttctta aagattaata atctttgtgc agatctgagt gagaaaatca gtgaggcaat 360
 gtgaaggaga tacatcatta ngggtttgaa aaaggagta 399

<210> 20810
 <211> 411
 <212> DNA
 <213> Glycine max
 <400> 20810

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 catccaagaa aaaatttatt gtcgtttgaa tttgctcaga gattcaacat tcaatttcga 120
 gcgtctcgat atattacggg actcaatcag acatccgagt aaaaagttat tgtcgtttga 180
 attggctccg agcttcaaca ttcaatttcg agcgtctcga tatgttacga gactcaatca 240
 gacatccgag taaaaagcta ttgtcgtttg aatttgetca gagattcaac attgaattgc 300

gaggggtctcg atatcttacg ggactcaatc agacatccga gtgaatagtt attgtcgttt 360
gaattggctc agagcttcaa cattcaattt cgaggggtctc gatataattac g 411

<210> 20811
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20811

agcttgggtct gatgtactta cccgttgaag actgaagaaa acgaagaacg aacgatgaat 60
cttgaagaat ggtcgataat cttcgcgtaa ttactcacgg aaacgttacg gaagcgcctc 120
ggcttggatt ttcttcacgg aactaatttt cctcagccat ttcgagagag agagaagtgc 180
ctaagggggcc gaaccctttt cttcttcaact tctcccccta tttatagcaa aatagggggag 240
aagcttgccg cccagctcgc ccaggcgagc aagggttgctt cctccagaag caacagcctt 300
ctggaggaat cttctggagg gcccaagtgg gcttggttgc tatttgcacc cncctattta 360
ctaagtgcac cccctttcta ttnttttgta attctttntc tgtaacgtta cg 412

<210> 20812
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20812

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atgtacttct gggcgcccga cgagggtttt cattgacatg gtacctcatt acatatagga 180
ttgagtctta gtatatttgt tgcataaacac ctgtgtattg atcgatattg attggttgat 240
tgatattgtg ttttgatcct taagtacgta aatggtgtga aaatgtgtga gacgtgtagt 300
gttgagatgt gatgttacgt gataagtggg ggaatgacgt gagctatggt gaagtaagtt 360
gtatttcacg atatgtatat tatgttgntt tgtttctctc tatta⁴¹gta 409

<210> 20813
<211> 410
<212> DNA

<213> Glycine max

<400> 20813

agcttgtatt tttgagctcg atcggtcatc tatcctggcc gacgccgact gtcatttatt 60
tcgatcaata tcggtgaata atatTTTTTT gccgaggtgg gctaattgtt tctggccga 120
ataaatggga acacgccagt ttgggccgaa acaaaacatc ggttgagctc gcacgaaaaa 180
acctagccga cctacattgt aagTTTTTTA tgcaacaccg aaaaaaaca aacttccct 240
gccataagaa aaaacattat cggccagcga gcgtTTTTTT aaaaaaaaaa ttgggcaatg 300
tcggctgaaa aatatcagtc ggggccattt cagcaccgat gtcggctatt gagttttcta 360
ttcaatccct gaatgaaatt tgcattgatg cgattaggaa atgtttgatc 410

<210> 20814

<211> 412

<212> DNA

<213> Glycine max

<400> 20814

agcttttgct tgtgcaagct ctacgtaaag gaggggaagt tgttgcggtc acaggagacg 60
gcaccaatga tgctcctgcc ctacatgagg tctgtcctat tctttggatg catccttttg 120
actgttgaga aataaattag ctacaaaact ttttatctcc tgaaatcttg cttatgaatg 180
aacagaatat atatttcact acgaacacat ttgaacagta tatcatgaag cttccatatt 240
tgattcgaat gactttcata aacttttctc attaaaattg ttctggcaga catgaagttc 300
cgtgtaattt gctcttttagc tcgtaggaag ttgttccaat gtgttcagta gacatggttc 360
tagttgaagt tgaatgctaa agcctgcata ttogaatgtc aagtttcatg tc 412

<210> 20815

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20815

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catccagttc tgctggatat aaaacctgct ctttcaacca acgacaatca attacatgtg 120
aaaagttaat tcttcttaat tcttatatac atggccttta tgggtgttgaa gaattagtat 180

ttactatcta cttttctttg ctatatatgt tagtcctggt aacagaatat cgtaaagctc 240
gtacaaggac ttttgaacga accagaggat gcngatgcat ataaagaagg gactctctat 300
acaggtactc tagatggatg gattaataga ttgcgcagga atcatggaaa ccggcagaat 360
tggatgcaca tngatagtca tactttgcta ggaat 395

<210> 20816
<211> 410
<212> DNA
<213> Glycine max

<400> 20816

agttttattac tcttggcaat tccttttaaaa ctaatcactt ataaagatat gacttttgaa 60
agaatcttca gaaacaagtc acttgaagaa atgtgacttt tggaaatgaa tttttcgaaa 120
acagtcactg gtaatcgatt accagaaagg tgtaatcgat tacacatcaa cagatgtgac 180
tcttcatttt gaattttgaa aatcttaatg ttttaaaacc actggtaatc gattactata 240
atctggtaat cgattaccag agagtaaaac tctgtggtaa tgattttgtg aaaacttctt 300
gtgctactca atgttttgaa aaacttttta atacttatct tgattgaggc ttctcttgat 360
tcttgaatct tgagtcttga atcttgatct ttgaaacttg attcttgaat 410

<210> 20817
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20817

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attgatttca ccattttcaa tgaatcttgc atttcagct ttgaaaattc tcatactatg 120
attaggacaa taaaacatat accccttttg acttttctgg ataaccaatg aaatatccac 180
tgattgttca tgcaccaat tttctttctt gtggattata aatccttatt tctgcttggc 240
aaccctaaac atgcaagtgc cttatactag gtgtctttgg aactgcctta ctaggaaccc 300
tattcaacaa atacatggta ttnttcaagg catacatcca caaagataca ggtaaatttg 360
aattacttaa catactccta accatatcca ttaaaattct attacgcctt 410

<210> 20818
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 20818

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 ttatatatct atatatctat agatagatat atacatatag atatatagat atagatcata 120
 caatgaagta ccgcacgagt gggatatatac gaatccaaat ctgccgaatc actcatgtta 180
 tgatcttcta catcctaggt cttcccgctgc cttcatctgg cttatgttct tcatgtagca 240
 ttcagactga atgactctat gatatgacgt cgctacttcc acatgggtacg ggtaacgtac 300
 gagacatctc tattttttccc ggggggaatc cttagagtga ccacagctta gctttcaatt 360
 cgctctgac catcaaatga aatgtgaata accc 394

<210> 20819
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 20819

agcttttcat catgggctaa gtttgaaatt gggagggctg ctgtctattg gaaaaccatg 60
 aatggcctcc ctctacttc agtaagtata aaagtattga gttaactcat tgcttggtat 120
 tcaatcaatt atctttcagt aaaaaaattt acaaattttg gcagggagaa aagctaaaac 180
 ttttctataa tccagctgca actcaacttg tcctaataga agaatttgga attgctttta 240
 atggtaattt ttgcaatgtt acttggttgc ccaaaaatgt catttgccat tgcatttgta 300
 aggaaaaata tttggattca ttataaacag acataaactg caccaagaac aagcgatata 360
 aattacacat cgtaattcag aattagcatg tatgtttgga gtcaatggaa a 411

<210> 20820
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 20820

agcttctcta aatattatgc gcctgaatcg gacttccggg tgaaaagtta tgaccattgg 60

aattttctcga gagcttccga tgttcaattt cgagcatctg gatataattat gcacctgaat 120
 cggacttccg tgagataagt tatgaccatt tgaatttctc gagagcttgc gatgctcatt 180
 atcgagcttc tcgatatata atgcgcctga atcggacatt cgtgtgaaaa gctatgacca 240
 ttggaatttc tcgagagctt ccgatgttca atttcgagca tctgaatata ttatgtgcct 300
 gaatcggaca tccgtgtgac atgctatgac catttgaatt tctcgagacc acacgttggt 360
 caatttcgag agtctcgata tattatgcgc ctgaatc 397

<210> 20821
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20821

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 ttgagctgtt caacaccagt taccgtgcat atcattcaat gttttgggtca aagatgtgaa 120
 aaatacccaa gggcctgngc aaaaagggtca tttcaggcat ttttctgggt cctggctcgc 180
 ctaggccccc aaatagctta agggcaaagt aaccaactca cttgggtgag aaagggttact 240
 ttggagtga gcatcagctc aattgggtga gttgcaagac caacaagtgc tctcatttct 300
 tataaatagg catgatggag gctgaggaag gggttggacc ttcattgtta agagaaattg 360
 gagagaaatt aatgagaaga aga 383

<210> 20822
 <211> 403
 <212> DNA
 <213> Glycine max
 <400> 20822

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 agtacgtgag ctcagttgga ggtgggcaac aggggatggg gggtttatgc gcgcattgtg 120
 gatgtgaaa acttgttgtg caccatcgcc cgaccgccac ctagtaccac atgtgatggg 180
 taccataa tcctacaagc ttgagatgag gaagtgtga agggtgaaac ttctgcttt 240
 tattgttgac cacagagtgg tacctggaga tatgtcgcgg cggtcaggag accttgggga 300
 cgtcagggtg ggtgctattg cccaaaacca agcttgacca atcccgacc aaccgggca 360

tagtcgggtca gtgagaacct gtgatgtacc taagcaggcg agc 403

<210> 20823
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20823

agcttggttta ttcaaatttc aagatacaag tgaactcccc aagaagtgac atggcccact 60
 tgtgggttttc caatctagct tacattctgc aaagttagaa tatgaaaatc caattaaact 120
 caaggaggta cctttggggt accttaaacc aacattgggt gtgcccttaa ggtacttaat 180
 aatccttttg acaacattta aatgggtattc cttgggattt tatttatatc tttcacatat 240
 gcacacactt agcatgatgt caagttgggt tgtagtcaaa tataggagat aaccaatcat 300
 acctctatac ttgactcat ctaccgattt acctttttca tccaagtcaa gataaatgga 360
 tgttgccatt ggtattgttt ctcccttaca ctnttcata ttgaaattct taat 414

<210> 20824
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20824

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 atatatcgag acgctctaaa ttgaatgttg aagctctgac caaattcaaa cgacgataaa 120
 tttttactcg gatgtctgat tgagtctgt aatatatcga gactctcgaa attaaatggt 180
 gaagctctaa gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240
 taatacatcg agacgctcga aattttattgt tgaagctctc agcaaattca aacgacaata 300
 acattntact cgtatgtctg attgagtccc gtaatacatc gagacgctca aaattgaatg 360
 ttgatgctct cagcaaattc aaacgacaat agacttttac tcagatgtct gat 413

<210> 20825
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 20825

agcttgcattg atttacatct ccccccttct caagaaaatt cttctttata tcatcaaatt 60

cttcatgatt tacaagaagg tccacctgca tgaaattttt tgtaggaag cttctctttt 120

tgtgcgacta tgtcatcctc tttctcaggt gtagaagcaa gcttgacagg ttcaggtgca 180

ggtgctgcta ctagtggagg cacttgaatc tgggtgtcag acttcaaggt gatggcactc 240

acattttttg gattctgcat agtttgtgaa ggcaatttgt cagaattttg ggactgagct 300

tgattcaact gagtagccat ctgccccatc tgatttgtca gactctaaat ggaggctctt 360

gtctcttgct gaaattgcat attctggatg gtcatttgcc tactaactc ttc 413

<210> 20826

<211> 412

<212> DNA

<213> Glycine max

<400> 20826

agcttatttc atgtttctat gttcaaata aattagtgtt ttgaaagttg ttttttatca 60

agtgcattgca aaaacttcta aattcatttg gtatttgga aagccattca ttgattttca 120

ttctcaatgt tgccaaaaat cactttgttg tgttttgatc caattcaaaa gcaagtttca 180

aaatcactgg ttgtgatcc tttccaaaac atgttatgtc caagaaaaat tttctgttta 240

agtcccaaaa agagttatat atattctaca actacgctaa cagaacaaaa ttatttagtg 300

gtgtgtacta ccaaaaagag ggtgtcagac cctaatttca tccggggaat gtttttatcg 360

ttcgacacaa cccgatcaat catatgcaag aaccttgctc gagtgaatga gt 412

<210> 20827

<211> 407

<212> DNA

<213> Glycine max

<400> 20827

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gaaagctttg actggcctgt tccggccacc gtgggttgcc gatatggtct cagcttgact 120

agaaccact tatttacctg aaactcatgg tccctgcgat gtccatccgc gatttccttc 180

atgcgagcct gcgctttctg caatttccgg cgaaggaggt taaacatgtc ttccctctga 240

ctgagcaaat cgtccactgt tgctacagtg gaggtgcctg ttaagtattg gggcaaactt 300
 ggaggtttgc ggccaaatgt aacctcgaag ggtgttagcc tcgtggctga gtggacagac 360
 gtgttatagc accactctgc ccacaacagg aagcgccccc acgaact 407

<210> 20828
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 20828

tgtttctagt cgtccataga cctcctcata ggtacgggtc agcgaacggt gcatctgtgc 60
 attcatcgca tccagtaaca gacgttgaac gccgtcctac tgatgatact cgtcaccacc 120
 gccacctgct ccagccataa ttcaacagga aaaaaaatgt gcaataagaa ttattaagggt 180
 ttcaggacct cacaacactc tactcacgtg ttgaactctt agatggtagt acacttgccg 240
 ttaatgctct cagataggct tttgtgtaat gtattccctc ttgcctttta ccaactcgtg 300
 ctctctttaa gtgcctggat ggaccaaatt agacacacaa cgtaatataa aataaaagga 360
 aagacaatat aatgatcaca aacagacttg attcgggatg aca 403

<210> 20829
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 20829

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 aatctgtact tgttgcaaga atctgtggtt tatgtcctc tgccgaccac catacagacc 120
 tttgcccttc tgtgcagcaa tctggagcaa ttgaacagcc tgaagcttat gctacaaaca 180
 tctacaatag acctcctcaa cctcaacagc aaaatcaacc acagcagaac aattatgacc 240
 tctcctgcaa cagatacaac ccogaatgga ggaatcacc taatctcaga tggcttagcc 300
 ctgagccaca acaacagcaa cctgctcctt ccttcagaa tgctgctggt cgaaatagac 360
 catacgttcc tccaccagtg caacaacaac agctaccaca gcatcaacag a 411

<210> 20830
 <211> 411

<212> DNA
<213> Glycine max

<400> 20830

agcttgtatg taaactagat gccttgggta acctggtaac ctaactggcc atgaatcaaa 60
aatcaacacc tgtcgccaga ctctgtggat tatgctctc tgccgaccac cacacagacc 120
tttgcccttg tgtgcagcaa tctgaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180
tctacaatag acctcctcca cctcagtagc aaaatcagcc acaacagaac aattatgacc 240
tctctagcaa caggtacaat cccgagtggg ggaatcatcc caaccttaga tgggtttaatc 300
cttcacaaca gccgcagcag atacaacagc cttattttca gaatgctgct ggcccaagca 360
gaccatacat tactccacca atgcaacaac atctacagcc ccagaaacag a 411

<210> 20831
<211> 408
<212> DNA
<213> Glycine max

<400> 20831

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gcatactttc ttgatcgac agtttttatg tatatacttt ctttttttga cagttatttt 120
gtatgtgctt agaacttata atttaggatt atcctccatg agctaaaatg gataattatc 180
agaatataat ggtgacgtgt gggaatgtga gatcatgatg cgttactttg cttttctgtg 240
tttaattctt aatttgctag atgagaaaca atttcaaagc aaatgttctt cgtttttgac 300
aaagaaaaac agaaggattt ttttaataaa ctatttatta ccgtgtgttt ccttcggcag 360
ctaaacattc gcaagccgca acagattatc tagtctcaag ctaagact 408

<210> 20832
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20832

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gagtcccgta atatatcgag acgctcgaaa ttgaatgttg aacctctgag ccaattcaaa 120

cgacaacaac tttttactcg gatgtctgat tgagtccgc aatatatcga gacgctcgga 180
attgaatggt gaagctttga gcaaattcaa acgacaataa ctttttactc ggatgtctga 240
ttgagtcccg taatatatcg agacgctcaa aattgaatgt tgaagctctg atccaattca 300
aacgacaata actttttact cggataattg attgagtccc gtaatataac tagacgctcg 360
aaattgaatg ttgaagctct aagccaattc aaacgacaat aac 403

<210> 20833
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20833

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tgcacgatag tacgcaaacy gaaaggattg gggtatatat cgtatgtatg tgacataaag 120
aagaaaaatg aaaacgataa taacgatata gattttttat tctattttta tttgaataaa 180
gtaaaagtaa tgccgacttt tcaaataatatt attcaggatc taagtaggcg aaattaaaca 240
cgaaaattat acattgaatt gaataaaaaat ctaaaatcat actcgttcaa ttcaccatga 300
tttgatgcan atgtatgttn tctttctacc tctctctttg cctgaatatg aaatcgatca 360
ctccaagctn tnntctctc actttntatc attatgaatg gat 403

<210> 20834
<211> 416
<212> DNA
<213> Glycine max

<400> 20834

agcttcttcg tgtgctgaag tatactacag agagaaggat ccaagttcca aagaagtttg 60
agagataatg ttgtgcatag acctgcagag accacaactc ggagaggaag ccgtcctgag 120
agcttgatat gagttcgtga gtgaatgtga cgacctagac gtggacgata catccccgct 180
acttttattt cttcaatcct tcatctttct cttctctttg ttgtaaagga agcttcctag 240
ttatggagag ctaaatcctt tggtggttct tcttgtagg tacttgatgt aaatatttgc 300
atatctattt aatgatgttt tgtgtgttca ctgtgctatc agaacttcat tctaccatgc 360
ttttgccttg atcacataga tgcagcggtt tttagggtca ttcaactttg gaaact 416

<210> 20835
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20835

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 aaataaaata attttctctt tcaatgtacg attcatatgg tagttaattt tgtagttttg 120
 tacttcctag tttatcaagg gattttcatg cataattcat attggcattg aattataatg 180
 ttattttgtg tgttctgttg gagatccaaa aggttcctta agattcgttc tagctcattg 240
 tcatgaacta tagttgcagt tggttgattt tcaaaattgg tagccaagtt gttatctttg 300
 ttcttttaaa ttcctcgaa gcacaccatc ttgattccaa aaggaaacat acatgtaaaa 360
 acttgcactt tnttcttaat atattgtcaa aactcacaat taacagatct ac 412

<210> 20836
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 20836

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 aacggacaaa catgaaatag gaatgatgca atatgaaaag tgaggggatgc acttttgaaa 120
 acaattatca agggcaaagc cgcattaggat cggcagaaaag ggagaaggaa aatgataaaa 180
 cttgaaattt attgaaattg aaagaagtgc ttacaaagtt gtcctaagta gagcacctct 240
 cttctcagac tcctgaaaat ggctaaatga aagggtgcct cacaacatgg tcgaggactc 300
 cttttatagc caaaaacatt actgtttgct acagtaccgg taacttgacc gaaactatta 360
 taataattac tacaataccg gtgaaataac cggaataatc atgaaacggt tatgtaa 417

<210> 20837
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20837

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 cgggtgtttca aaataaagct cttttatcaa gttacgcaca cattcgagtc cattcagggc 120
 ttcgggaaaa atcttcattg cattcaccct tcaggtgcac acacattttt tttctttcaa 180
 aaatcttttt atgttccgac ccgtgaattt tccgaagaaa aaaaaagcgg ttatttttctt 240
 tcaaaagcat gttcgtntt agtttttttt tagcttttcc tttcaagcaa atttcttttg 300
 tgttagaaaa ggtttgtaac ccgggcaaag tcggtaaccg agattacact ttatcaaaag 360
 gaaataaagg catacgaatg caaatacaca agactcccta tttttttt 407

<210> 20838
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 20838
 agctttaaat taaacgtcct ttctcacctt gattactccg aagctgttgt gctccctcct 60
 tggcaagttt gtcctgaag attgtgaccc aagtgaagt agcactgtag gttcggaaag 120
 caatcactgg aatcctaaac tcttggtgcaa ctcccatgac aatcgttgac atgagtcctat 180
 caactatgat gcaagatggt tgctgccact gatcaccatt tttctcgaga agtcttgaga 240
 acaattctcg gaactctttg gcaactaagg atctggcgct aggagtgata agcattggaa 300
 ggtagtttat tacggcacct tttctaggat tgtcagaggg tatgccatca gtgatggatg 360
 caaagaggaa atcgggaaat tgagtgtgga atgagggtaa atctgtgaa 409

<210> 20839
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20839

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 ggagttcatt aataggtgcc acacattgat gcaaagggtg ctacaactca tgtttttagct 120
 gcccttggtta ctcttgatc tgaccaaacc ctgaccgtaa agtatggcca gcatagatgc 180
 atttggtgct gtgactcaac acttcaaaaa tgagatggta tctatcacca atatttctcc 240

cggttttctg attaaatggt gatgctaattg cagatcccca tgtcaaattg cttgatcaaa 300
 taaaatatct tccagattgt tgacaagata cgtgttgaaa tggatgcctt tcttgaaaat 360
 ggttcccatg aagctactat agctgttatt cgtgcgt 397

<210> 20840
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20840

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 gcacaacaag ttttccacat ccacaaatcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gtcacgtac tcccacgtag cccatatcct cgtttctctc aacaccgggt 180
 ccccataaat cctcccaagc tttcccaaca tccaagtaat acaacattca aacagcacia 240
 attatcacag ccaagcaaaa cagggcaaaag gtagaaaact ctgccaaaac accaaccaaa 300
 atcacagctt ttctactta aagaccccag taacaattcc tttgttccaa ttcgttaacc 360
 gttggatcga ctccaaaatt ntactggaag tctctcgtac ttaagcctac attg 414

<210> 20841
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20841

agctnttgtt aacgtaattg ctctacata ttcaggtgaa aatgagaagt tctttatgta 60
 ttaacaagtt tatgcatata tccgaaaaat tcaaagttgc tccaaaatta aattgacgct 120
 catcgataat gtaactagta aggccaaagg tggaaacata tccaaaata atataacagt 180
 atacgtcaat atttcatgat atttagtgct aatgggtgca acttgcaaga aaagaatata 240
 ccaaagttac aagaatgtca acaaattnta aaactagtta tcgtattcct tgcaatcatg 300
 gcaaaagtcc ttgataaccc ctctgtggca actattttag taagtataga acaagtaaca 360
 aagtaattaa tattaggaaa ataaaatatg caagaaaaaa aga 403

<210> 20842

<211> 410
 <212> DNA
 <213> Glycine max

<400> 20842

agcttatgct tctaaaaagc tataggtaat gtaatgtaag aagcaagtgt atgatgaatt 60
 acttcatgtt tctaattctc ottatttagtg attatctaata taacaatttc atgaaattaa 120
 cagcttcctg aatacattgg cattttcaaa gatcatgaag aaatatgata aggtgaaaat 180
 tcaattaccc ttcaattcat tttactcatt taaactttat tatctgtact atcacttgac 240
 atagtaactt cataattcag atcacgtcaa gagatgcagc tgaagcttat atgagaatgg 300
 tggacaactc ccaccttgga agttctgatg aggtgagagt gctaataaga aagtctccca 360
 ttgagattca ttattctttt acatgtaact tctatacacc gttagtttaa 410

<210> 20843
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20843

agcttgatat aacatagtca aggetgtttc cactatatgt ccgtgcttcc tttctaccag 60
 accatttttg tgggtgtgat gagggcatat gagtctatga ataataccaa gctctgcaag 120
 atacttagta aaaggtctgt attccccctcc ccaatcagac tagacagctt taataggcaa 180
 attaaattga gttttcacca tagtttgaaa ctgtgtaaag ataggtagtg tctctgattt 240
 atttttcaac aagtacaacc aagtgaaca agtgtgagca tcaacagaag ttacatagta 300
 tttataaaca gtgtaaatga gttcaaaagg agttgaatac acagtaagag agggagagga 360
 ggggaagttat gagattcgcc aatgcaacaa tgggaacaan agtcagaact t 411

<210> 20844
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 20844

agcttattaa agtccttact gatccacatt gggtatgtat gactgcattg aatgagatga 60
 cgtgcaaagt taggaattct aatttcagtt gttgcaattg atgcactcat aatcaagaca 120

ctcgagtgtgct tgagagaaac attattcttg tgatgaatga agcgagcgtg atccccattg 180
atgtatgtca tactcgctaa tctattgtat attatattgc atctgtgcat acttttatcg 240
tgaaacggaa ccaggcgga gcttgtga 268

<210> 20845
<211> 405
<212> DNA
<213> Glycine max

<400> 20845
agcttgtgaa atcaatggaa tccaagattc tgtttgacac aagtcgttta attttgttct 60
tagaaatgtg acctaagcgc ttatgtcatt tccaacaata ttttaattaa aagacaacct 120
aaacacattg tttccagatg aacacaaata acccaatttg tccaaataag aaacaaaaac 180
caaatttcgt ctaaatgacg gtacaacaaa agtgtctttc aaatccaaat aaaaactagt 240
acataataat ctaaaatgcc atatagcttc cacctccacc tatttaccat ctccaacata 300
tatccatctt tcagaattaa ttgggttcgg gtagcttagg caacactgca ttgaaacact 360
gatgttagta gtggcaccag actctaacca ccaagtgttt ctaag 405

<210> 20846
<211> 411
<212> DNA
<213> Glycine max

<400> 20846
agcttgctac atatcaccta tggtcaccac tagggttcct tcagatgggt ttatatctat 60
ccactctccc ttatttgatc tgacttgaag cctcctatc tcatgttgat ataagatagt 120
aatacaactc atatcaatgt gcatcccaag cccctcaact tgatcttcta taacttctgg 180
agctgagtaa tcgtttaccc aacatatcca accatgaaca ctcttcata cttgattcac 240
ttcttgtttg ttcttttggg tactttcatc cgatagtctt catgatgcaa accatttacc 300
tttcaaaatt ttacctatac ctcaattttt gctactgcac atggtaattg gtaagcctaa 360
caagtacatg gaaaaaagga gatagacccc actggtttgc aagtaaacta a 411

<210> 20847
<211> 409

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20847

agcttgtaat tgaacaatgg aagatcttga gaaattcaat cggctcttaac ttttcactcg 60
 gaagtccgat tcaggcgcat aatatattga gacgctctcg tgaaattcaa atgggcataa 120
 cttttcactc agagggtcga ttcaggcgca taatatatcg agatgcacat aattgaacaa 180
 cggaagctct cgagaaattc atatggatcat accttttaac tcggagttct gatttagggc 240
 cataatacat tgagacgctc gaaattgaac aatggaagct ctcgagattt tcaaattggc 300
 ataactttta actcggaggt ccgaatcagg cgcataatat atcgagacgc tcaaaattga 360
 actacggaag ctctcgagaa attcaaattg tcataactnt taactcgga 409

<210> 20848
 <211> 389
 <212> DNA
 <213> Glycine max
 <400> 20848

agcttgatcc ttgaatcttg attcttgaat tcacctctct tcttgaatct tgaagtgttc 60
 ttcaactttt cctcttgaga cttgaattga tcttgattcc atcttgaact catcctttga 120
 ttgacctttg agtttttgtc atcacctttg tcacatctct ttgttatcat ctttgctatc 180
 atcaaaacat ctttgaatca ttcttgattc accatgaagc tttgcttcta cacacgcaag 240
 ttcaacgaag gggatcttgt cttaaagaag gtataccacg cccagatgga ccatatggga 300
 aaatgggctc caaactacga atggcctttt gtcgtgaata aggcctttat caggcggagc 360
 attggtgctt gccagcatgg acaatgaac 389

<210> 20849
 <211> 415
 <212> DNA
 <213> Glycine max
 <400> 20849

agctttacat attgaagaag ctattcttga acttggtatg ggggcgagtc tctaacaatt 60
 tcttttggaa atatattcct agactctaac actctgaatc cgataattag ttttaagggg 120

aatttttttag aataaaacac taaaaataga aaaggggtac tcttagtaaa tgaggggatg 180
tatttagcaa ttgcatatt ctagtgattt cacatcctca ttgctatcat tattcttttt 240
ttccaacttt tttttatata gaactctttt cccaactttac tttcttgccg tccggatggt 300
catgcaatag agagaaattt tcttaattca gttttgacaa gatgtggtct attaatattc 360
agatatccat atcgtctatg gaaagatctg tttttaaaagc gagtttaatt gtatt 415

<210> 20850
<211> 410
<212> DNA
<213> Glycine max

<400> 20850

agcttatatc ctttggatcc aactttgttt aaggcttcct tgaccaaga atcaaactat 60
tagttctatc ttattctcat ctttgtataa aatcccatgg gacaagggtt tgaaggctct 120
ctggctctaa ctctaacaac cgaccaggtt gttggcacac aacattgatg ttgtcttggtg 180
ttattgcata ccacacatgt cgggctacac actgtgtgca aaattggggg tcacatggac 240
ccatttcaat ccaatcaagt tgtaagtcaa aacatatcac acaaacacat tgaccttcag 300
tatcatcttc atcactatca tcaatatect ctattgcata aaaccgacct ttagtaatgg 360
catcattctc aattgcatct ccatgtctag attgaccgtc agagatcctt 410

<210> 20851
<211> 311
<212> DNA
<213> Glycine max

<400> 20851

tgttttattta acaaaattgc ctcaatcatt tccaaatatt catgtgaatt aggaagcatc 60
aacaagaatc aagccaaggc tattgtgcaa gcaatcaatg gggcaaaaca caccaaata 120
ttatgatgat ggatggctca aattctcaca aaggtaaact catcactttc aaattgagct 180
ttcaaaacta tcatgacatg tagaggagaa tcaaggattt caagtcacaa aatgtcaaga 240
actttttattt tcaaaacaat tacctgttag ccaagtggcc tcagatatct taagaagggg 300
gggggggggg g 311

<210> 20852

<211> 408
 <212> DNA
 <213> Glycine max

<400> 20852

tggttatatca acaactgttt taagatattg taaattctat gcactttggt taaactacaa 60
 aatcattgct tcaaaagtta agagatgatg ggtgggagcc attaaagatg tcaaaaattt 120
 ttgtgttagt aatgttattg atattcttga ttttaatact caatatttaa gaactcgagg 180
 taagccccgt cataagaatg ttgacacttt tgtgactatg gagaaccgtt ttagatatga 240
 catatttaca actgccattg actttcaatt acaagagctg aataataggc tttgtgacct 300
 aacaatggaa ttaattattt ttagctcagc tttgagtctt aaggatgttt ctaaatecct 360
 caaagttgat tatatatgaa atttagttgc ataataattat caaaggat 408

<210> 20853
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 20853

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 aagaaataat aaacgctttc ctacataaat tcataataaa gctaacattg taaggaaact 120
 aaaaactcca acatttgatg gcataaggct agcaaggagc tatttaatta ctcacctgaa 180
 cacttatatg atcacttttc agttaataat tatgcatgga atgcatgaaa tcataggcca 240
 ttatttcctt ccgttgctac aacttgcttc taataatgga caatccctga tggtaataac 300
 taaaagagaa gaaaccaatc cctctttatg taaggatata agttggtgag aacttgacat 360
 ctcatggttt tcaagagatc taagatgttg aagccacctt ccatccaagc atttt 415

<210> 20854
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 20854

acccgggatg ctctcaggca cctgaagctg ctgcttttcg gaccatagta taagactggt 60
 aacctcctct atcacgtaca caagatggct ttaagcatat atacgtgcat gaaaaggaag 120

tatccaaatc tgtgaggagac gagtactcca ctacaacatc agcctatcaa tccttattat 180
attgttgaag gtcttaacga gacgtatgct tatttcctta tacaacgaca actgcatcaa 240
ctacaacaac aactgtctca acggggacat cacgcaattg ccgtctctcc tcctccttgc 300
ttacaagagt taatgacgca tccgaccatc cataatatgc tcttatagcc tgagaccaga 360
gcctctattc ccattctgac ggatctaatac tggcagatga ctacttattt g 411

<210> 20855
<211> 79
<212> DNA
<213> Glycine max

<400> 20855

tagtctttta tatatcggtt cgctgaatac tgaacatatg ttaacgctcg acatattcaa 60
aggatcctta ctattcaca 79

<210> 20856
<211> 391
<212> DNA
<213> Glycine max

<400> 20856

ttgttgcaag cttgttctag aagcaactaa gtttttacat tgtataactc aaaatttcct 60
attacgaaaa aaaataaatc tcccttatac ttggatgtct ttcgtatata ttttttcaca 120
ttacaaatac tatctggtac aaaaaaaatt taaacagcta caaatgtaca aactttgttc 180
acttttattt tatttttttag ttaagctaaa gtgtatgata aaaccaattg tttaattaat 240
cgggtgaatat ggaataactt aacatttaat aattatgagt gtgtgtgtgt gtttaaataa 300
ttattacatt tcatacttca atttatttca aaaaaattac agtaaaccct tatgtcctcc 360
ttaaataata ataataatga taataataat t 391

<210> 20857
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20857

agctnnttagc tcaaatttct ggctaactta tcttttattc cactaacgac agagaaagga 60

tttaaagtgt taattaatgt agttttaaaa ggatgttgat ctctccattg cgtangcaag 120
agcaagacaa cgcttaccaa acaaaaaccg ctcttaattt ttaaaacata taataaaatg 180
ttcccttatt ataataatca aattgacttc aattagcata aaaataatag cttttagtgg 240
gacaatccat agtaacctag gaaactcagt acaaatacac attaaaaata caaaagccca 300
aggatataat atgcttcaaa tatttgtttt ccacactcaa attgccatat cacgggtgaa 360
taagtgaatt caaaccaaga tctaaacaaa nagctatc 398

<210> 20858
<211> 414
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20858

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
gtggatggca cctcctctca cctcttctca tttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
gcaagcttcc atcacaagat accttggaca cgcattgtata tggcaaaata gctcacaaaa 240
tatacgtagt tttaggtagc aaaatacctc aaaaaaaaag agagagagca aaaagagagc 300
gagcaagaaa agaataagaa aaaaataata ataaaaagtt gtctagctaa aaaacaacat 360
gcttgtgaaa agagataatt tccaactttt ctttgaaaga ttntactgat ctta 414

<210> 20859
<211> 392
<212> DNA
<213> Glycine max
<400> 20859

agcttggttat tgaacaatgg aagatcttga gaaatgcaat cggctttaac ttttactctg 60
gaagtgcgat tcaggcgcat aatatatcga gacgctctcg tgaaattcag atggtcataa 120
ctgttaactc agaggcccgga tctatgcgca tagtatactc agatgcacat catggaacaa 180
cggaagctct cgagagactt atatggacgt gacctttaac tcggagttct gattcaggca 240
cataacacat tgtgacgctg gagatggaac aatgaatgct gtcgagactt tcaaatggac 300

ataactgtgg acgtggaggg atgactcggg cgatgagata tagagacgct cataatgaac 360
tacggaagct ctctagaaaa tgaatggcac ta 392

<210> 20860
<211> 412
<212> DNA
<213> Glycine max

<400> 20860

agcttgattg aacagtgcac ttatattatc cagtgggtga tacttcattt tggaattcag 60
tgtttgtaat tggtttgaat tgatcaattg cgtgatttga gtgaattgga atgtgtagat 120
catgtgccat gaatgagcat gcagtcatta gaagagaaaag aacattgaat taggatcatg 180
actaaaaatg ttagttgggt tgtcaagttg attgtgaagg aacgcattag ccgcaacccg 240
gtgaaagtgt gatctttaat tgtgagagaa tgactaacat tgagtaatga ttcttgcacg 300
aatatctgag tatggaatga atgtgtgaaa ttgaagatga tgaaggccat gtttggattg 360
aagatagcca cttatctaaa aagcttacct tgtgcatgat tgatttatcc ct 412

<210> 20861
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20861

agctttttta catgcatgca tcattcccag tgaaaattaa gtcacaaaca tacaaactca 60
caattaaaat tcttttacct cctcctgttt tgacaaagag agtgtgctca tgatcgcac 120
gttcaaatacc ctcttcaca aaataggctt caattttgct ataccaagca cgtgggtgctt 180
gctttaaccc atataaagct ttcttaagct tgtagacctt ctcttcttca ccttttcgaa 240
cataaccggg tggttgttcc acatacacgt cctctgtcaa ttctccgtga agaaatgcgc 300
ttttgacatc tagttgatac acattccatc ccttttgtgc tgctagagct aaaaccatcc 360
ggattgtgtc ccaccttgct accgngcaa acacttcggt gtagtcaatc ccttg 415

<210> 20862
<211> 409
<212> DNA
<213> Glycine max

<400> 20862

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
gtggatggca cctcctctca cctcttctcc tttgtcttcc gttgcatctc catggtggaa 120
aatcaccatt aaaggacctc attgaagctc aaagatccag ctttcataga agccccacaa 180
gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240
tccattaatt tttttgcttt accttctctt ccattgttgt ttcttcattt ttctccatgt 300
atctcctcac atgtcttgtg ctaaagtgtg ttaacatgat tcttttagatt ttccaccgat 360
taaacttgct atagaagcta gatttgattt tctatgggtc aaatttctt 409

<210> 20863

<211> 402

<212> DNA

<213> Glycine max

<400> 20863

ctgcagctta ttgttgcccg agtcattcat ccctatgaga tgttggtgaa gtattggcga 60
tcagaattgc cattcgttgg attatagggg tgaaccaagc tcatgctttt acaaaaaggt 120
tcatcaagtc aagttgaaat atggaagtaa cagtcttgca aaattggggc aaaagatgaa 180
tcgagtcaca tcaactgttc gtctactgcc aaacatattt aggattattg atgtccttgt 240
tacttccagt ttcaccttga caaagatgtc atggaccatg ttgaaaatct aaattgattc 300
aaccocatat cttgcgtaaa aattcgcaat acttcaactg tacatcattc gcatacatcc 360
atgcttttca ttggttgcat tgctcattgc attctttcct tg 402

<210> 20864

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20864

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atagcctgta tcaagtcaga gttggtgctt catatctcat ggcattgaaa cttgccacct 120
gtcattttta gagaatcttg ctcaatgtaa tattgtaatc tcaatctgca aattgcaaaa 180

taggctgcct gcatgccaat gatacttgat tgagtaatga ttgatgaaca tctggtaact 240
 ctaaaccacct cattaacacc tattatcttt ctctcccat cacaatcatat caattacat 300
 agctatattt ctttctcttc tcttttattt ctctctctag gtgtcatcta gaggggacat 360
 gtccactaac aatntttgga ttaatttcc tattntcttc tttgttcttc a 411

<210> 20865
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 20865
 agtttgtgtc acaattcact gtgacagtca aagtgtcatt cacttatcaa atcaccaa 60
 gtaccatgag aggacaaagc acatagatgt gaaactacac ttcacagag atgtgattga 120
 atctgagaag gtgaagggtg agaaagtttc aacagaagaa aatccggctg atatgttcac 180
 aaagtccctc tctagtgtca agttcaagca ctgcctggac ttgatcaatt tcgaagatgc 240
 ctaaagcagt ttggtagaag tgcagcccta aatcacaagg aagacacttg ctgatttgga 300
 gtcaagggtg agatttgtgg tgtgtgactc aaaatcaca tttgcacaag tgagaaggct 360
 ttaaagtggt gttgtcataa atgttatcaa gtattataac tgaattg 407

<210> 20866
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 20866
 ctgcagtctg tttcggaaac agcacaacg gaacacccat gaaggaagga gcgctttgag 60
 gaaggaagaa gaaaaacaat agcggcagac tatgcagagg aaggagggtt ttttaaattt 120
 taagtgaata acatttttac cattccactt aaattactgg atgtactagc aataatagt 180
 ggtgcacatt ccacttaaat tactggatgt actaacaata atagtgggtg cacctagagc 240
 acccgataa cttatatttt tcgcatcctt tggatcaagt tctgaaagt aaatatggat 300
 ggatgcagag atgtgtctat cgtgataata tcaattcatt tgaaaaatat acacgtgtat 360
 ggtgtgttct tagaatgtca ttacccaaaa ctcattatgt attgatgaaa tg 412

<210> 20867

<211> 414
 <212> DNA
 <213> Glycine max

<400> 20867

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 aagacagagc aaaggcggaa aactttgcc aaacaccaac caaatcacia cttttctcac 120
 ttaaagaccc cagtaacaat tccttcgac caattcgta accgttggat cgactccaaa 180
 attttactgg aagtctatag tacatgaacc tacattgtga ccgttgggat ctactagcaa 240
 acatccagaa ctcatctgt actactcttt ccacagccaa ccacacacia gcatttttct 300
 gcacaaagcc aaaatcctgc tgcacctatt ttgacagcaa aattctgcat aagtgcagat 360
 ttcgaaaatc acacttcctt tcatccaatc ttgcccaaat caaatgctac aagt 414

<210> 20868
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 20868

agcttattcg taacaaaaag gaagatattt ttcttatctt tccaaggact actcacacgt 60
 tcaatttgaa gttatttagt gtcctctaag cactgcacia ggcaaatagg tcaagtaagc 120
 acaaaatatg aaatttagct ataattctca attaatctca atcatatttg cctaagacca 180
 aaactgaatt aagggtgagta aataagagtc aaggagatag caatgagcta agaagaatat 240
 aaaaatattc aacaacaaat gtcfaatcaa agtctatctc ctatcatcag ggcacccacc 300
 aagatcgga actgtgtacc ctacaacctc caagttgtca actctcatat acacaagcat 360
 agactcctta gtcttctaca agtacctcat caccttctta g 401

<210> 20869
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20869

agcttccttg agacacttcc ttgagaagct tacatgagaa gattcctaga gaagctagag 60
 cttagctaca cacacctctc taatagctaa gtgcacctcc ttaagatgag aagctagagc 120

ttagctacac accccctata atagctaagc tcaccccatg acaaaatata tgaaaatata 180
 aaaaaagtcc ctactacaaa gactactcaa aatgcctga aatacaaggc taaaacccta 240
 tactactaga atggccaaaa tacaaggccc aaaagaagga aaaacatatt caaatattta 300
 caaagaanag tggatccaac cttggcccat gggctcagaa atctaccctg aggatcatga 360
 gaaccctagg gtcttcttta gtagctctag cccaatcctc tt 402

<210> 20870
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 20870

agcttattta tagtgatata tatggtggtg cacatggctg tttgtgtttc aaggaaatta 60
 aattgtacac taattctata ctctactttt aaaatttcca caatttagta ttcaactttt 120
 aaaatttcat gcattattcc ttattaattt taattaagta attttttgca ttgaaaataa 180
 tataagaaaa accaaaatac aaaataatta ataaaaactg attacatgag aagtgaaggt 240
 aagttgtatt tgaaaacatt gtttttataa ttattttttg gttttatttt tgaatcttaa 300
 aagaatatgg tgaacaacat agaggagggg tggaaggaaa aataaataat ttggtgagat 360
 tgcgcactaa agattaatac aaagactata aaatataata catgataaat cacttg 416

<210> 20871
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 20871

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 gtcagcaaag gagcacacaa accacaaact cttgcgacag gaacagattt ctgattcaag 120
 gccagctggg ttactaagtt aaccaatgca tccagtttgc cttcaagctt cttagtttca 180
 gatgatgcag atgggcttgt agctacctca tgcactcctc taatgactat ggcattcatt 240
 ctggcgctaa actggttggga gttggaagcc atcttctcaa ttaaatttct ggcttcagca 300
 ggagtcattg ctccaagggc tccaccactg gcagcatcta tcatacttct ctccatattg 360
 ctgagtcctt cataaaaaata ttggagaaga agctgctctg aaatctgatg gtggg 415

<210> 20872
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20872

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 gcaaaacgat tcttcacatc cacaaatcac gtataaccca ccatcccctg ttgcccacct 120
 ccaactgagc tcacgtactc ccacgtagcc cttatcctca ttcctctcaa cgtcgggtcc 180
 ctatcaatcc tcccaagctt ccacaacatc caggtaattc cacctccaat catcatggac 240
 taacaaaacc aagcaaaaca gggcaaaggc agaaaactct gcccaaaata caactcataa 300
 tcatagtagc ttttcacata caaatacccc agtaacattt ccttcgttcc aattcggtta 360
 ccgttgatc gactcgaaaa ttntactgga agtttctagt acataagtct acat 414

<210> 20873
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 20873

agcttggtat tggacaacgg aagctctcga gaaattcaaa tggtcataac ttatcacact 60
 gaggtccgat tctggcggat agtatatcga gaagctcgga attgaacaac gaaagctctc 120
 gagaaattca aatggtcata actttttcaaa cggaagtccg attcaggtgc ataatatatc 180
 gagaagcttt aaattgaaca acggaagctc ttgagaaatt caaatgggtcg taacttatca 240
 cacgggagtc cgattcaggc gcataatata tcgagaagct tggaattgaa caacggcagc 300
 tcttgagaaa ttcaaattgt cataacttat cacacggaag tctgattcat gcgcataata 360
 tatcgagacg ctcgaaattg aacaacggaa gctctcgaga aatt 404

<210> 20874
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 20874

gttagatgaa aattagtatt taatgcaagt aaggttagaa attaagtgtg aataattaag 60
gttgataaat cgtgatctag atttcataga attagaaaaa gggtaattaa ataataaaag 120
tttaaagtgg agggcatttc gtaaagtatt atacaacttg tcttaaaata gaattttagt 180
ttattttattt ggtgactaat taaagtgttt gatttatatga tatagaattg tgtgtgtgtg 240
tgtgtgtgtg tgtgtgcgtg tgcgtgtgcg tgtgcgtgtg cgtgtgtgtg tgtgtgttat 300
ttttctattc ttcttagctc aatttacatc tctttgatcc ttactttctc actttactta 360
gttgtgatct taggcaaadc attgagtttg attaataatt gcggtttat 409

<210> 20875
<211> 408
<212> DNA
<213> Glycine max

<400> 20875

agttgtttct tgagtcacga agagattata aatatgtgac catggcatga gttttaatcg 60
ttcatcaatc atcaatcaat aatcaatgat ctatcatcta tcatctatca tctatcatct 120
atctttcaat ctatctttct atatcttctt ttatctcttt caacagatct ttctgaatta 180
tttctcttca tctttctaaa agtttttgtt caacactttc tcttccaaga aaagttcttt 240
gttcaaaaac ttgcgtatct catctttttc atcctcttct tcttttgcca aaagaacaaa 300
ggactaaccg cctgaagtct tttgtgtctc tctccctttg ccaaaagaac gaaggactaa 360
ctgcctgaat tcttttatgt ctctcttctc ccttacaaaa gattcaaa 408

<210> 20876
<211> 412
<212> DNA
<213> Glycine max

<400> 20876

agctttcaac aaaagttttc acaataatc atcacacagc agaaacctag caagactacc 60
cataatatct cccaaaaccc cataccacg aaaatcaaga gggaaagaag tccacccaaa 120
cctgaatttt cgaagtccca ctgtagcca cgcacttcac gacccgaaa atgccctcct 180
ttcgcgattt ggagcagaaa tgagtaccaa aggttgagc tttgttggg tttcaatgga 240
gaatgagggg ggagaaaatg gcaacgtgag agagagagag agctgtctga aaaagtgtgg 300

gggctgagtg atgagagaga aaagcttttt gggttttaaataaaaaggtttt cctctttttt 360
 ttttctatta ttttattcaa gctctgccac atgtccctat ttgattggag ca 412

<210> 20877
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20877

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 attgtgcagc tgagtgatgg cagtttgtct gtcataggta acacaatttt taataattaa 180
 tatattttta tgtcttctat atccttttga tgctttaaat ttggaaaatt actcttggcc 240
 ccctaaaatt aaagtgatta atttagttct attaatattga aaatgaccca tttttttgta 300
 ctttataggg tttgttgga taaacttctc aaaagaagta cttataagag aaaaaaaac 360
 aactaaaaat gaaataagtt nttccattag ttaaaatag 399

<210> 20878
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 20878

tgtctttttg tgggtcttgt tcttcacata aataattaa tatcactgcc taccttctta 60
 gtttctttcc tgattgattg ctggcattag cataaactat ttttgcttca tgtggttcca 120
 ataaatcggt agaactgctg tttatctgaa gtaatgcatt actaccattt ttttctcact 180
 aatgcatata ttgttcactt agattcataa tacacagggt ctggtgccaa gatgagtcgc 240
 gattttaatt gcattcaaaa acttttttgt cagtgtcttg ttagctatca ttgtacagct 300
 caatcttcgc cattttattc atgattctta gatctttggt gaatatcaca ttctcaatgg 360
 aggtgttcga cttttacggt ggattgttgg ggatgggtcg cacac 405

<210> 20879
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20879

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agcttctcaa ggaagctacc tagtctataa atagaagcat gtgtaacact tgttgtaact   60
ttgatgaatg agagtcttgt gagacatact tcaaagttcc acttctctac cacttttatt  120
ccttcaatth cgtgctcccc cctctctcct tctctccctc tttcttttcc tccattgaag  180
catcctctcc aaacttctta tccaaggctc atcttggtgg tgaagctcct tcttccatgg  240
cttatttctc agtggatggc gcctcctctc acctcttctc ctttgtcttc cgctgcatct  300
ccatggtgga aaatcaccat taaaggacct cattgaagct canagatcca gcctccatag  360
aagccccaca agcaagcttc catcataact ttac                                     395
```

<210> 20880
<211> 402
<212> DNA
<213> Glycine max

<400> 20880

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agcttggttaa gatcccaatc catcccatcc cagacatctt taacctttag gatagaatca   60
tagatatgca ccaaaggaac tttgccacaa agaggctcct tagaagctag tttcaccatc  120
ccccacctta aaaggcgaaa ccacacctta gatccctcaa aatctcaacc cgaaacttag  180
ttagggagtg cattaagtcc caaaccagtt ttccatgaag agcagtatth tgagaacgag  240
ccagcctaac acccaggccg tggctactcc tccttttggg aatagtcttc cagttaacaa  300
ggtggagacc cctactcgta ttctcttccc aaataaatat tatcacagtt ttatgcaatt  360
catcacaaac aaacatattg aggggtaccag ttcacctgca tg                                     402
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<210> 20881
<211> 397
<212> DNA
<213> Glycine max

<400> 20881

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ttgcttgcaa gctttttaac agattttagt aatgaccac taacctagaa ttaaaataac   60
ttaatgcat taacctatgg aattaaaaaa acttaatggc tgagtgtaac tgaaattgtg  120
gcaacaaaaa gtcaccccca acagccaaca agtcagccac catttggtct cccaaaaggc  180
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tgatgcctat gttgccaatt gggcccttat tacaacttga actaaaccta actaaagccc 240
 ttttagttga ttaacccaaa acatatTTTT ggtcagccaa ctttacaagg attgggcaat 300
 tatttagaca aactaaacac tctaaaattg aaactaagtg gtgtcattta gtcctcctcc 360
 atttgggcca tgatacaact cacaaccttg gattttc 397

<210> 20882
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20882

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 tgtgctcaaa tatatggggc aattttgatt tgttttcttg cttgattagg ttgaattagg 120
 ggttggtatg agatggccct aggcctataa tgcattttga aacaatagga catgccacat 180
 tgtccccgtt ctcttgctat tgatgcctaa acgcgcgccc accaagtgtt cggtgaaatg 240
 cctcaatggc attagcgtgt gacttttgta aggagacaac ccatggggta ttttggtttg 300
 tgcatatttt ctattttttt ggaatatgta ttcattcccg aaaaaggcta gagtaattgc 360
 cccacatata tcttagtcct agaaactgaa attntatgca aaaagagcac aaaag 415

<210> 20883
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 20883

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 gggacgcccc acattatttc catgacacaa atgcaaaaat gatgatttgg aaactttatg 120
 caaaactggg catgcatgca cctatgtgga cactcaagtg tcaaattttt atggatcatgt 180
 gatgctaggg ctcaggattc atttcctcca ttttagtcaa cccaatgttt ccaaatatg 240
 ttctttttatc aatttgtgca ttcattccgag tccatttttg gcgtccggtg aaatcttcac 300
 agcattcacc cttcaggtgt atacacattt tttttcaaaa actagctatg atcagcgaat 360
 tttctttttca aagaagagtt ggaagtcac tctttttcaaa agcatgttgg 410

<210> 20884
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 20884

agcttaagct tgttgagatt attatattat tacatatattt ctttaaaaat acttaaatgt 60
 attattaatt aaacacaata aattataaca ttattaatta ttgaaagta ttaaaaaatg 120
 gaaagaaaaa aaaaacagga tcaaaattcg ggtttgatt cttaacctga ttttgacaaa 180
 aaaaaaaaaa acaagggagg ggactgagat tcagtgtgtc tgtaacaaat tctcaccctg 240
 aataacaaaa atgtctaatt aggtaaataa aataaaaaatc tcgaagacct ttcttgaata 300
 gttagagagc ctaatgaaaa cacaaaaatt actttttaat aaagtgtgaa ttttagaaaa 360
 taaggtcacc ggtattttgg aacttccttag atccaaagac caataaatc 410

<210> 20885
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 20885

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 gaccactgtt cttccttccc gcgatgcttc ttttcatgtc cgctgagtg ggcttatagc 120
 ctaaaccata cttcccacga tttccttggg tatttatcag gctagttatg ccgccgttgt 180
 ctttgccctaa acccatcccg gggtcataac cgttcccca cataactcgg gccatcatta 240
 ctgctgcacg ggatagacaa gggtgcccag agagggagtc cacggaggaa atgctgacca 300
 cctcaaaaaga ctggaaagcg gtttctaacg attcttctgt ggcttcaca taaggcatag 360
 aggatgggca gcttaccaag atgtcttctt cgctgacac 400

<210> 20886
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 20886

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 tgaatcaaga ttgattcaag gagttttgat gataacaaag atgatgacaa aaagcccaag 120

ataatgagtt caagattgag tcaagaacac ttcaagaatc aagagaaatt tgatttcaag 180
attcaagaat caagtttcaa gaatcaagaa tcaagaataa tcaagttgaa gattcaagaa 240
tcatgaaaag actcaatcaa gataagtact aaatTTTTTT tcaaaacatt gagtagcaca 300
tgaatTTTTt acaaaacctt ttaccaaaga gtttttactc tctggtaatc gattaccagc 360
ttattgtaat cgattaccag tagcaaaaat tgTTTTTcaa aagctttcaa ctg 413

<210> 20887
<211> 413
<212> DNA
<213> Glycine max

<400> 20887

agcttgtatg tcttggatct tcttcacaaa tggagtaatt tgcttcttga agatcaatag 60
cagcgtaatg gagatggaag aaagatgatt ggagacgcc a t t c a a g g a g a a g a t g t g t c 120
aagaaaaaac tcaccaccat aggaagtcac ggataagagc ttgaaggtag gagaagatga 180
atggaggaag agggagagaa ggagcacgaa attttgtgcc tcaaatagaga tttcaacttt 240
gaagtgtgat tctcaaatta tcaaagttga aaaaatgcac atacatgacc tctatttata 300
gcctaagtgt cacataaaat tggagggaaa tttgaatttc tattcaaatt tcaattgaat 360
ttgaaattca tgaatttgtg gagccaaagt ttggagccaa aatttcacta att 413

<210> 20888
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20888

agcttgtatg attatgggggt acccgtcata tgtggtacta ggtagcgatt gggcgatggg 60
gaaagtcaac tctccacatc cacaatatc acataaatcc accatcccca gttgcccacc 120
ttcaactgag ctcacgtact cccacgtagc ccttatcctc gttcctctca acaccgggtc 180
cccatcaatt cctccaagct tccacaacat ccaaacatca tgaactatcc aaaaccaaga 240
aaacatggca gaggcataaa actctaccca aaacacattc aaataccaca gttttcttca 300
ctcatatacc ccagtaacat gctcttcggt ntgattcgct aaccgttga ttgaatctaa 360

aattntactg gaggtcccta gtacataagt ctacattntg accattggga tctg 414

<210> 20889
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20889

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 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaag 120
 attatgatga tgtatggctc aaattctcac aaaggtaaac tcatcacttt caaatcgagc 180
 ttctaaaact atcatgacat gtagaggaga atcaaagatt tcaagtcaca aaatgtcaaa 240
 aacttttatt ttcaaaacaa ttacccattt cttgaacatg tcctataatt caaagaaaaa 300
 cttgcaaagt cgtacatgcg cacagaattg acccanaata ttaaactaaa aatccgacat 360
 gtttgcgga cttcacgga aggttgcatg ccacgataca atgggtccccg aa 412

<210> 20890
 <211> 370
 <212> DNA
 <213> Glycine max
 <400> 20890

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 agccattgca gcacttacct aataactacga ccagcccttg agatgcttca cattcgggga 120
 cttccaatta gtaccaacca ttgaagaatt tgaggaaatt ctaggatgtc ctctcggggg 180
 aaggaaacca tatctttcct ccgggtgtct cccctctttg agcagaattg caactgtggt 240
 caaggattca gccagagggt tggaccgcat aaaacagact cggaacggca tagcgggcct 300
 gccacagaag tacctataag acaaggcgag gggtatggcc aatcaaggag actgggtccc 360
 gtttatggat 370

<210> 20891
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 20891

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gatatggaag aaagatgatt ggagacgcca cttcaaggag aagatgtgtc aagaaataac 120
tcaccaccat aggaagtcgt ggatatgagc ttgaaggtag gagaagatga ttggaggaag 180
atggagagaa ggagcacgat attttgtgcc tcaaatgaga tttcaacctt gaatgggtgat 240
tctcaaatta tcaaagttga taaaatgcac atacatgacc tctatttata gcctaagtgt 300
cacatacaat tggagggaaa tttgaatttc tattcaaatt tcacttgaat ttganatgca 360
tgaatttgtg gagccacagt atggagccag aatctcact 399

<210> 20892

<211> 355

<212> DNA

<213> Glycine max

<400> 20892

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ttaacttttt ttctgctatc ataagtaatt gatgcatttc atgtgtgaat gctaacaaac 120
tgttctgcca gaacctgcga aatgtttgtc ttggcattct aaacggctgt gaagtaagggt 180
tggatgaact gaatctagat ggaggtagga attttgttgt gttgttacca tctcttttct 240
tctagttccc ataccactcg cattacaatt cctaacttca tcagcagttt tcatcagaat 300
gatgtgtaca ctctgcacta tgtaaattctt ggtatttatt ggttatgcag acata 355

<210> 20893

<211> 396

<212> DNA

<213> Glycine max

<400> 20893

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gaagtccgat tcaggtgcat aatatatgga gacgctcgaa attggacaac gaaagctctc 120
gagaaattca aatggtcata acttttcaaa tggatgtccg attaaggcgt atattatatc 180
gagaagcttg aaattgaaca aaggaagctc tcgagaaatt caaatgggtca taacttatca 240
cacggatgtt caattcatgc gcataatata tcgagaagct tgaaattgaa caacggaagc 300

tctcgagaaa ttcaaattgg ctaactttt cacacggaac accgattcaa gcgcataata 360
tatcgagact ctcggaattg aacaacgaaa gctctc 396

<210> 20894
<211> 398
<212> DNA
<213> Glycine max

<400> 20894
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tgaaaggaat atcataatgt gtaggtgagg gtggggatgt cgtcatgagt atacacaatt 120
gaaacaaata caattagcag cacatgtcag ttatataaac atatatgtca acatgataaa 180
aaatgtatga caacatcact tttaacatct cagatatata acataaatgt cagtcaaaca 240
aacaaataaa atgtacatta agttgaatga aattcaaata cataaatgta ttacaattat 300
gcaataggtc atatacatta tcaataaaaa cataagcagt tacatttgat tattctccca 360
taaaccttca taatgatcat ttctagttgc atgtacaa 398

<210> 20895
<211> 395
<212> DNA
<213> Glycine max

<400> 20895
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agatctttct ctcactgtgt cctgcgtctc taccattct catccatctg catgtttatc 120
tctttatgtt taaaacgcca gatccgacga cgagtccctt gaaggacta atacctgaga 180
cccgcccatc gacttcgaac aagaaacgtc tcagacataa tatgaagagg acgaggatgt 240
gagactttcc tcggagtcgg aaaggatagt cgcccaggag gaccataaaa tggggcatca 300
tcaacaagag acagaactag tataacttggg aactagcagt gtataaaggg aagtatagat 360
atgcacgagt atgaccacac ccatccgcca ataata 395

<210> 20896
<211> 395
<212> DNA
<213> Glycine max

<400> 20896

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agatatcgag acgctcgtaa ttgaaaacgg aagctctgag aaaaatcata cgacaataac 120
ttttaactcg gatgtctgat cgaaccctgt aatatatcaa gagctcgaa actgaaaagg 180
gaagctctaa gaaaagtcaa acgacaataa ctttttactc ggatgtctta ttgagccctg 240
taatatatcg agacgtctta aattgaaaac gaaagctcta tgataagtca tacgacaata 300
actgttaact cggatgttcg atagagccct ttaatataac gagacgctcg aaattgaaaa 360
ctggagctct aagaaaagtc aaacgacgat aactt 395

<210> 20897

<211> 478

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20897

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atcctctaca gtcggcctgc aagcatgtct tcttgtgcgc atanntgggg tggggtcgag 120
gaggcaggcc ctacatTTTT ggttccaaaa cagggaaagc tccgatatat tttcaacgca 180
gtttaactta cctagaatat ttacctgtac aaacatagtg tatttgtcac tcacatcaca 240
cacctctgct tggatacatc tacgtacaag catatctaaa gctttttggg gcccaaatat 300
cgccatgggt cacatcttgg tattctaaac acctatacaa acttcatgat gaatatcgtc 360
tatctactct ataaagagct cctctacatg ctcatataag actcttgcta cctaaagccg 420
catgcagggc caagtatttt taccttgcgt gactaaaata gaatttatag gcatatct 478

<210> 20898

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20898

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tttgttaatt agtttagtta gttaattagt taggtagtta gttagttact agcactctat 120

atattagtgt tagatagtta gttaaggact agaacttcat tngagaaaac acttctctag 180
aacttcattn tgtacaaaac ttgttggtgca agctctcttt ctctttcttt ntctctcaat 240
tggtcttcat tcttcttcat cttttcactt ctgttccacc atttccttac acaaatttca 300
tggtttctcc attggtgatg attatggagg gctaaacaat taaccaatcc aaggatccac 360
tccaagcaaa gctgaatttg agccct 386

<210> 20899
<211> 388
<212> DNA
<213> Glycine max

<400> 20899

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atcacgatca tegtctccct ttccatcatt gggggtacca cctgagccgc cagatccctc 120
caccttttgg gcggtgttctt tgaaagatcc gtcccccttt ttgcaaagt tctgtaattg 180
catcctatcc ggaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattaa 240
gtccttccaa gaatggactc gggaagattc caagttagtg taccaggtaa cagctacccc 300
agtaagactt tcttgggaagg aatgtattag caattcctca tcttttgctt attccctcat 360
cttctgacaa tacatatata gatggttc 388

<210> 20900
<211> 396
<212> DNA
<213> Glycine max

<400> 20900

agtttttgtg atatatttca ccagagacgc agtccccaa acacctcagt acccctcagt 60
agttagactt gttccattcc cctacaaaaa caaccacca gttccttga ggtatgcgcc 120
tccaagcgaa aggaaggaag aagccaccga catcagctcg ttgtcaacca aggtaaccaa 180
tatcacgggg ctgagtggcg taacctgcag tgggtcacatg ttgcacccc ccgacctgcc 240
aacaccaccc gcaaacgtta aagggaaggc gaaggtagcg gaagaacaaa gtgacaaagt 300
gatccctact ctggacgagc atattccagt aaaaagtctt tcggcgaaat gggatggcta 360
tgaaaagaaa gaagtatcgc tagaggaggc aggtga 396

<210> 20901
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 20901

gcttgttgta gatccattga ccatagccct tgcgaatgca aactagata gatgtggcta 60
 atcgaggcat cctgcctgtc atatgctcgc gctagaacac actgatgtgc tttttctctg 120
 aagcaatatg ttgctaagtg tcagaacgaa gaccgtttga atgaattcgc gtacgatgcg 180
 aaatctatta atgtgcccat acttgatgaa ttctgcacct gctttcttag acatcattac 240
 gctatatgtg gagtaactgg gctgagcgtg tgattgatga ggtaccagta atcgccagcg 300
 gatg 304

<210> 20902
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 20902

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 taattagctg acagtctgat catgctgata tatatcaata agttaaattt gatagtgata 120
 ctggttgata tattaaacta cattgagatt tggcaaaagc aaaaagctat taaacaatgt 180
 cttgtgttgc attctcattc aagaaacagg tttcaacttc tgtacaaaac agaaaatcct 240
 tacaataaaa gaaaacagct tctgttcaaa tttgectcat cttatctgtc tgtgtctcca 300
 ttagcatgat ttacagggtca ttcaaagac aggcgacagt taggaactca tccttcttac 360
 atggtattgt gagaccaccc attgcgtgc 389

<210> 20903
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 20903

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 aatgatattc gacctatgac cagctttaac ctgtttcttt gtcttttcta tgaatcctat 120

attgttaatg aaaataataa ttaacctaat gtttgagttg gagtttttaa cactacaaca 180
 ttgtattaat aatgttaaag aaaaataagt acttcatggg atacaagttt cacaagatgt 240
 gtcgaccatg caatgaatgt gtcaagggct tgcccgacat actaaatctt tgacgtcaaa 300
 aaagggactt aagtgtcacc attgtaaaact tttgcaatac tcaccttcac cacatcatca 360
 ccataaggca cgtttgttat ggtggatacc 390

<210> 20904
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20904

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 atttctgagc aacttcttct tcaatatttc tatgaggac ttagcaacat ggagaggagt 120
 atgattgatg ctgctagtgg cggagctctt ggtgatatga cccctgctga ggctaggaat 180
 ttgattgaga agatggcttc caactcccaa caattcagtg caagaaatga tgctattatt 240
 cttagaggag tccatgaggt ggccatggat tcattctcat ctactgaaaa taaaaagctt 300
 gaaggaaaac ttgatgcctt ggtcaacctt gtaactcagc ttgccatgaa ttagaaatct 360
 acacctgttg catgagtcgt tgggtctatgt ccttcttt 398

<210> 20905
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 20905

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 agatgatggg acagcgggtg aaccagaagc ggaagtttct tttggtgagg aagccatgga 120
 aaaacagagc gtttggaatg atttcataaa tctcagaaaa ctattgggaa atgctggaga 180
 aaacacgaat gcctagcaga tataaatttg aatgaagaat gtagaggggc gtgtgaagca 240
 acggtcgaat ttgctttgtg gtgaacgtgc tattaatggt aagtgattcg tttgggcacg 300
 ttcagattgc agtagctgct ataattcctc tagcaaacia atgcccagct tgcccctcag 360
 tttttcaaac tgatttgcac ccaaagcctt tgtg 394

<210> 20906
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20906

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 tgggtagagg tcatgataag gactttcatg aactcaactt tcttgagtaa tagagaatct 120
 ttgtcaatgt ctatgacctt tccaaagtta gaaattatac ttgagaggca ctttgtgttc 180
 catgtagaga aaatgatatt gtagcatcta atccacgtca atctattact tgtgtgagtt 240
 gattcttccc atttttgcac tgatttaaag attgaaatga agtttctttt tcatgttcta 300
 tgcatagact gagaacctat tctcataca agccagatac gagtaccana tctccagcat 360
 tatactcat aaaaacctct tggtttcctt ccat 394

<210> 20907
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 20907

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 catccactat ggaataagcc aaggaagaag gagcttcacc accaagaatt gccttgata 180
 agaagcttga agaggatgct ttaatggagg aaaagaaaga gagaaggggg gagcacgaaa 240
 ttcaaggaat aaaagaggga gagaagtga actttgaagt atgtctcaca agactctcat 300
 tcatcaaagt tacaacaagt gttacacatg cttctattta tagactaggt agcttccttg 360
 agaagctttc ttaagataac tttcttgaga agcttc 396

<210> 20908
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20908

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 gggctgtgcg tegtactaca ccgtnnatcn tgncccgcca tactctaaga gattttcctg 120
 cagcaggctc tttttgatct attgcgtnag cataagcaca ggataacctg tgagcgtcgg 180
 attgaatatac aacaccatcg gcgtaggaat gtgatccata cacaaaacca ccccgagagt 240
 aagccttctt catggggcac ggcaagcaag aacagaaaga cgcccaaaca tcgaaatccc 300
 gtcctagggt gagaaggggg acagagtacg atctcggacc aaaccatgca tgccaaacga 360
 caacatgttc aggaaaacaa tagttaaacg atatcgatag ggtgccctag gtgcaccata 420
 agctaataaa accgaaagggt cgactaacgt cagcaaaaagc aagatacacg gcaattctgg 480
 gtacacatta acgagag 497

<210> 20909
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 20909
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 gcgtagctgc tgctctaagc ccttggtgtg tgttgaggag gttgagctaa gcgccatgca 120
 acgctaagct caactctctc attgtatctt aagttactgc agctaagcta agtgcgccct 180
 gtgcgctaata cctgagtgtc attctgataa cgttgagcta agcgcgccat gctacactaa 240
 gctccaactc tcttctatct tgaaaattgt ggacctatgc taagctcagc ttgctgcgct 300
 gagcttaatac tacataaaaa atactctgtg tattcaggct aagtgcgagg ctactgcgct 360
 tagtcgctaa gttaaacttt ataatgcgc 389

<210> 20910
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 20910
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 ctatgacacc gatggagaac cagagaacca aagctgctat atggaacaga gcgagtgagt 120
 ctcggaagggt tgaaatacct actattgtgt taagaacaac tttgacagac gggattgcat 180

tcaagggcat agtatgacat tggcttctct acgtatatgg cgtgcgtgct ataggataac 240
 agtctgggag aacaatcaga attgaaatga tcctacgcgc atggcatttc tgt 293

<210> 20911
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20911

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 ctcacataac cacaaactgc aataatgtgt gaacatggat agtgaagcgc agaatacctt 120
 ccgcattgac aatgatgacc attcaagtta actgcccact tttgtccgcc acgttgcggt 180
 atanggttga agctttcctc tacttcaaac cttgtgaagt ggatatcata cagcgaacg 240
 atgtgcgtac aagcttggtc ttgatttttc cttagttctt taacaagctt tgaacaatat 300
 acatgtcctt catttaacta tctttgggct tggcggccac gctcaacaaa gtactttcga 360
 cacctactgt acgttgattt gaccaatgct 390

<210> 20912
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20912

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 tctattcggt attagacata gtctctctct ctctctctct cttcttctct ctctattttt 120
 cgtttttaga tttagcgttt tcttacacac ttttttgttt tgcaattcca gttttgactt 180
 ttcatttttag cagtacaatc tcgctcttca atctataatt tccttctcta ttgattaatg 240
 gaaggctaga ttttctggtg ttgttccttt tgaggacgaa gcccaactct ctttgagggt 300
 tcgcttgcaa tgtggtttcc tggcagtttt ccttcacca gttatcccaa tttcgtgaat 360
 attaatcagt gcacgcttcg cgttcgatta a 391

<210> 20913
 <211> 588

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20913

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tatctatcat anacannccn caagaggagn ctttgatggc actcettact acacggcgag 120
gtcnagtgtc gtcgccccg ccgccgatct ctctattaga ctaccatgga cgctaggcat 180
ttcttttatt ctgggacgtc tcgcgtgagg cagcgctcag ctatatcacg acgctacata 240
acccgaaagg agaacagctc ctgcctccc gctaacctgc aagaaccttt agacggcggt 300
tctcgcgagg aggaacaccg cactcgtatg gcgcacgcct cgactgaga acaacagaac 360
gctctccagc tagagtccac cgcacaacaa actgattacg tcggagggac gaggaacaag 420
atataataga tcccgacccc acgacatcgt atagegaagc cctccactac tgctcactaa 480
aattactgtc actcaaaggg cagaccatcc ccaccaattg aaggagggcc acaattggta 540
tcgaccacta cgcaagagaa tccacctta ccttactatg tatcgagg 588

<210> 20914
<211> 392
<212> DNA
<213> Glycine max

<400> 20914

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tgacattgaa tgatggatat tgtatttagg caacaatatg taacatagct attgtattta 120
ggtaatagta tatgtccaac tattgtatatt agcttaacat tgaatgatgg atattgcatt 180
tagtaaatat tgtatgacta ttgtttcttt cttcttagta ttgtaatctt tcttagaaga 240
taaacagata gtgttttctaa aaacaattgt ttgataaatc attctcacgc gttatgaaca 300
tacttgggta gatatagtgc tctgttttat tcttttcaga acctagtagc tctcacaact 360
aacataaaaac ttcttcgact agcaaatagt gg 392

<210> 20915
<211> 387
<212> DNA
<213> Glycine max

<400> 20915

agcttatcac cacaagttat ttctgctaag catgtcttaa atagtaaagc attgtaacaa 60
atcttgattt tacacacaca cacaacata tagtggaat acaagaaatt ataaacttta 120
atatagaagt actagacatt gccaatctga agtgaggag aagaaaataa gtactgttga 180
agatacacia gtacatacta tcttgcactg aaaactgggt ctgtgtcagg tgatgggtgt 240
gtccttcgag tgtatttgag tagcaaccct tctgaagaaa gacctgggtac cttcagatct 300
ctgaaacatc tcataagggg ttaattcaaa tgtaaaaaag atgatacggt tgaaggtaaa 360
aataattatg agatgttcac ctgatat 387

<210> 20916

<211> 396

<212> DNA

<213> Glycine max

<400> 20916

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tatttgaaat ttgatattca tgaacattgt atttctcaca agtcaatggt tagattgatg 120
aagatcacat aaaatatgtt actcaattgt caaagtgtat aaattattta taatgtcgct 180
catgttttac taacatgggc attagtttgg aattaattag ttgctatgaa ataaaaaatt 240
gggacttcat ggccataagt ttcacctagt agtggtcagt aataatgtaa tgttttaatt 300
taacttctat caatggataa tctacagttt aggttgcct caattaataa atttattggt 360
tccttctctg gttgattctg ctaaaaaata agaata 396

<210> 20917

<211> 397

<212> DNA

<213> Glycine max

<400> 20917

agcttggtac ataaataatt atgtcactgt ccaatctttc aagcatgcgt catataatct 60
aaacagacag tatttcattg ctaaactcat gaaaaatgaa ttagaaaggt cacttacaga 120
gctaatactg gggtgtcttt ttgcagcaga gatttctgga gaattcaaaa gcagaggatt 180
tgtagcagag tatgggttcag tcatagcaaa cattagatta tacaggtaag aatctcaatt 240

ctcaatcttg aactaaacaa gtaaaatagc acattgtgca cacattaaca tagaaaggcc 300
 ctgtgttatg aaccataaaa ggcagcatcg gtctttatga ataagctttc caaatttaag 360
 gataacaaaa ctgcaacttc ttcaatgtat gtgcgctc 397

<210> 20918
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 20918
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 tttaactttg ctctgtggaga agaaaacaca caacgctttc ctcgatatct tgatgattgg 120
 gaaacattca tgaagtact attcagtgtc gctaaggcgg gcctgcttga tgaatatgac 180
 ttgctcccaa tgagtgaacg acctttggga gcagcctcct gccatccttc atctgagctg 240
 tcatgctgtg ccagggttatt actttcattg agccttgttt gagctaagag agtggactca 300
 actattatca atcccgtgga ctatgagttg agctccagat ctattttctg tatcactagt 360
 aggcctctgtt atttaataac cgtgacacat g 391

<210> 20919
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 20919
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 tcattcotta tcccttcacc ttttacatcc ttttgtacat ttgagccctt cgtgaccatg 120
 aagggctaaa caaccattg ttggagagct ttccaccaa ctctcttgat gtaaagactc 180
 ttactatcca tttaacatta ttgctagttt cattgttcct tcctgtgttt atttccatgt 240
 acttggtttg atcatccatt taaatgctat gttaaggttt aagcattggg aaatgtagtt 300
 aaccttagaa cttggaagag catctaaaat gcttcattgc tagggataat atgacgtagc 360
 ttatgtgaat tatacgtctc tattaatcat gca 393

<210> 20920
 <211> 308
 <212> DNA

<213> Glycine max

<400> 20920

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cttctttttga gtggcatttg tattgggttg taacttgatt gttgcgtctt tagtacattt 120
catattgggtt tttcatgtgc atcgatcatag tgtgtgtgaa ggaaatctcc taagtttagga 180
atTTTTTTta tgaggcaaaa actctctatt ttaatcgatt acagagtaat cgtaattgat 240
tacgacaagc tctgaagctt gaagatgtaa agtctcgtat ccgatttatg aatgtatgaa 300
tacatgaa 308

<210> 20921

<211> 382

<212> DNA

<213> Glycine max

<400> 20921

agctttttacc catgacttcc tatggtggtg agcttggttct tgactcatct tctccttgaa 60
gtggcgtctc caatcacctt tctccttct ccattccgct accattgatc ttcaagaagc 120
aaaggactcc attgatgagg aagatccaag gcctacaagc tctacattga gctacatcat 180
gtggtattag agcatcttca tctaagcgat gttcttttgc ttcctctatc tttttgttcg 240
gtcaattgac ttttaattcct tgttcttcat catcttctcc atgtatctgc tccattgtct 300
tatgggttgg ctatttttag agtagattca acaaaataaa ccgattaaat cttagataag 360
cactcgttct tgcatttcta tg 382

<210> 20922

<211> 384

<212> DNA

<213> Glycine max

<400> 20922

agcttggttct cttatgtgct tgtactcaga attaataaaa aaacacagtg acttactaac 60
acacctaata ttacaggact agaaacaaat tagactaata caaatgctaa aatttcaagt 120
ttagatacca gactcaatga tgctaagtaa atacagaaaa tgattacaac ataagatgtg 180
ttaaaaatagt aaaatactac taatgacaaa ataataataa tagacgggga aagaaaaacc 240

atatacgtaa aagacagagg ttaaggtggg gctgagctga aagaagaaaa agcatggaac 300
 tgaccagagt ttaggggttca caattcagca ttagttagca tactatctac taacaataag 360
 tatcatcatc atcatattaa actg 384

<210> 20923
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 20923
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 tgcgggctgt agcaccggct ccgctttcct aactgtactg gaggtgggtg tcgtggcttt 120
 atcctctata gttttctgga gtttttagcat gacctccgag atggaagcca tttgatcttt 180
 taaagccgat agatcggcct tcactctgttc ctgcacgccc tcttcattat ccatttttct 240
 ggatcgagtg ttataggggt gcctatgtgc tttcttagtt atgatgaaat tcctaaagaa 300
 ataaacaacg gtgagtatgc caccaaaaaca tgaatatgca aatgaatgat cggagcactt 360
 ggatccaccc ccaggttttt 380

<210> 20924
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 20924
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 ttctaggttt gaaaagtga atcgagaatg aggtaaattt gaagcactact ctcacctcac 120
 accagtccat aacatcaatc taaacttget caaactggat ttacgcttaa aatctcaccg 180
 aatcaaaaatt tgactcttcc acacccaaat ttgccctata aatggctctt tgttcacttt 240
 ggtcatttgt ttttctctct agcacagcct aatctttctc ataagtccta aatgacattt 300
 caagctaaga ttaactcact ctaacctcca tttaccacag aatccagaat taaccttcca 360
 actctcaaag cctcactctt tttccactca taacat 396

<210> 20925
 <211> 280
 <212> DNA

<213> Glycine max

<400> 20925

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gctccgctcg gcttacatga aagtctggct aggcccacga tcctatttga aagcttgctt 120
aaagacgtct ctgataaatc aattatttta aatcctaag aaataacttac taaaaaaaga 180
aacttatgaa atcccttatt agtaatgcac aaattctaaa ataattgata aacaaaatga 240
ttatgaattc tactcgtaaa gcacacagta tattaaaaaa 280

<210> 20926

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20926

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ataaagagta gcaaaatata atgtgtccta atgaaactag ggagtaacat atatagtccc 180
aactaaagta aagtagtaat gactaattaa gtacaaaagg tctgagccta agtctaccca 240
tcccaaaata ctcgtaaggg caaaaaccta agacttagag tagtcacctc tacctaagtc 300
caaagtcagg tgactgcaac tcagaaggga taacaacctc tggcataggc acaacaaagc 360
ggtaatacga cagtgtangc taggtctacc aaatg 395

<210> 20927

<211> 390

<212> DNA

<213> Glycine max

<400> 20927

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gggattgaat tgagaactcg ttaggcgaca tctgtcgtga agtagcgacc gatatttttc 120
agccgacatt gcacaattct ttttagaaaa gctcgctggc cgataatggc ctttttacgg 180
cagagtaagt tttcttgttt tgggtgttgca taaaaaagtt acaatgtact tcggctaggt 240
ttttcgtgcg agttcaaccg acattttgtt tcggccagga aaacattagc ccacctctgc 300

aaaaaaaata tttgctaacc gtcttcatgc atatttcatt caacgattga atagaaaact 360
caatagccga caacggtcgt gaaatagtcc 390

<210> 20928
<211> 395
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20928

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gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacctc attgaagctc aaagatctag cctccataga agccccacaa 180
gcaagtttct atcaagtggc aatcagagca caagagcttc aagtaagtgc tccttaaacc 240
tccattaatt ttttttcttt accctctctt ccattgttgn ttcttcattt ttctccatgt 300
atctcctcac atgtcttggt ctaaagtgtg ttaacatgat tctttagagt ttccaccgat 360
taaacttgct atagaaacta gattngattt tctat 395

<210> 20929
<211> 398
<212> DNA
<213> Glycine max
<400> 20929

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gggattgaat tgagaactcg ttaagcgaca tctgtcgtga agtagcgacc gatatttttc 120
agccgacatt gcacaattct ttttagaaaa gctcgctggt cgataatggc ctttttacgg 180
cagagtaagt tttcttggtt tgggtgttgca taaaaaagtt acaatgtact tcggctaggt 240
ttttcgtgcg agttcaaccg acattttggt tcggccagga aaacattagc ccacctctgc 300
aaaaaaaata tttgctaacc gtcttcatgc atatttcatt caacgattga atagaaaact 360
caatagccga caacggtcgt gaaatagtcc cgactgat 398

<210> 20930
<211> 390
<212> DNA

<213> Glycine max

<400> 20930

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tttttaaatgc attccaactt gcattgcaac catttgaggg accctttcat caaagatatg 120
aaattattga cactcaaggg gtcggcatct cccactccat gtaccttgat ttaacttaaa 180
actcaaggat caccacaatt ttattgtagc agctgaaatc catagcatga ttttttttct 240
tagtgatgct gcaacccttt actatatgaa cccatataat ataagtatca tttttttttc 300
agtaacagtg acttgatgtg cattatgatt gagtggctat aatatatggg aaatcatcta 360
aatgaacttg aggcacgaaa tgatgaacat 390

<210> 20931

<211> 392

<212> DNA

<213> Glycine max

<400> 20931

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ttccctttcc ttgttttgaa gctcactaca agccttaagt gaaaaacat gatattacca 120
tatccttaag gaattttgga tctttggaat tgttttggga ataagtgtgg tgggtttttg 180
tttcattgga caacttgttt tgttggctat gttcatgat gtattttggg ccatacttga 240
tgtacattgt atattggtta aatgttggac atgctgaatg aaatgttggt tctcaaaggc 300
caaagagtaa aaaaaaaaaa atatcgaaaa aagaaaaaga aaagcaataa agttgagtga 360
ataagatctt aaatggcaca agaatgatga aa 392

<210> 20932

<211> 375

<212> DNA

<213> Glycine max

<400> 20932

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agggatcgaa ttgaaaactc gttacgcgac atctgtcgtg aagtagcgac cgatattttt 120
cagccgacat tgtacaattc tttgtagaaa agctcgctgg tcgataatgg tcttttttacg 180

gccgagtaag ttgtcttggt ttggtgttgc ataaaaaagt tacaatgtac ttcgggttagg 240
 tttttcgtgc gagttcaacc gacatcttctg ttcggccagg aaaacattat cccacctctg 300
 caaaaaaaat attagctaac cgtcttcatg catatgtcat ttaacgatcg tatagataac 360
 tcagtagccg actac 375

<210> 20933
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 20933

atcttattta ttctgcttta gggctttatg atgatgcttg cgatgtttgt gtgctgaaat 60
 tgctgatgga aaactgatat agatgaatgg tagagctaac ctaaggctaa caagtgagaa 120
 tgtagtgata tgagtggaaa aatgtgacgc tctgaggggtt tgaaaggcta tatctggatt 180
 tagtggtaat tggagattaa agtgagttaa tcctagtctg aaatgtcctt taagacttat 240
 gggaaagctt gcgctgagca tatgatgaaa atgagtgacc aatgtgaaag caagagccat 300
 ttctaagtgt aattgcgtgt tgatgggtca aatattgatt cagtggagtt ttagtcgtat 360
 aa 362

<210> 20934
 <211> 517
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20934

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 tctctatgac agtcctagca ctgcactgca tagcatttct tgtgttgat tccattcaat 120
 acatatagct agctcggcgg catgcccatt acgtcacga atagtatcgc caaccggct 180
 tgagacacac agtcatgtta gaggaaccga tcttgtcttg agatgagaca tggctcactt 240
 ctactttctt atcaacgagc cgtatcccg cgcgttactg gacggttgta cgggccagca 300
 agccatattg ttttctgct gtacaacaac gacaccatgt acttcggcta cgtcagtcgc 360
 gccagagaca acagagcttt tgatgctgcc tcataaactt tcgtacaaca gttgagagaa 420
 gaatatgacc ataactcgat atgctgtgta ttacacgaga cagaatgctt atatacacag 480

acttgcctat aacaggcggg agatgactac gaatggg 517

<210> 20935
<211> 395
<212> DNA
<213> Glycine max

<400> 20935

ctgcagtttt tatgaggaag tgttgaaggg tgaaactttc tgcttttatt gttgaccaca 60
gagtgggtacc tggagatatg tcgcgggggt caggagacct tggggacgtc aggtgggggtg 120
ctattgccca aaaccaagct tgaccaatcc cgaccaacc cgggcatagt cggtcagtga 180
gaacctgtga tgtacctaaag caggcgagct ccttgtagtc aaccgataaa aggataacat 240
agaccacata gcaaggaggc ttgtgggtggc tgaccagctg tgaatttgtg tgatatgtgg 300
agtatagtct ctggtaatcg attaccaagg gtgggtaata gattacaagg cttataaatg 360
aagacaggag gctaagatgg tctctggtaa tcgat 395

<210> 20936
<211> 370
<212> DNA
<213> Glycine max

<400> 20936

tgcttattgt ttatggaaaa agtatagaca tccaattgcc tcgaccaatt tataagattt 60
gcgggagaaca tgcaaaatat ttcacgtctg acgctcatat gcgtatccgc tttacaagat 120
aatgggttggg ttgaaattag taaagattat gtaaacgaaa cgcgacagca tgtgaaggat 180
catatataat taagtcaatt atattcaatt tattcatata tgagaagatg agtgatatct 240
tcgaattaga tcgataagcg tattgtggca gtatctaatt cccgcttttt ctgatgaaga 300
catgtaatat aaggatgctt ttagtttatt agatgagacg aatgaatttg ctgtgacgca 360
aattcaatct 370

<210> 20937
<211> 540
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20937

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cnaagggggg tgggtgtgact cttcaccacg ngaaangaga tcgcggccgc cgaggactca 120
nagtagacca tgcacgcatg catttttgtg tctgcgacaa gaatacttct gcgagggcag 180
ccgctgacga ccaccgacgg aggataagag ctctcatag aagaactcgg gactcactac 240
gtaccaagtc gcacgaacgg gcgagaatgc tgcgcgccgg gtgtcagcga cgaccgagag 300
accgctgacg caagaaagag accgatcgca agacaacact atatctttcg actaaggtag 360
gaccggctcc atcgcaactt ctatagaacc gcggcggtca ccgacattcg tgatgtgtgc 420
gctgataacc gcccgccac ggacactaat ggaacctgac cctgtgggtg tataacaccc 480
acacaaaatg cgcaaccgca caccacatc ttccacagcg tcgcatgcac acagtccacg 540

<210> 20938

<211> 384

<212> DNA

<213> Glycine max

<400> 20938

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gaacacaaaa gcatgattaa ttagagaaac atctttatat acatcaactg gtttgtaga 120
aagacccaac atctttacct actgttgta atcttactta cttgcatttt tactgttttt 180
agcctagact tagttttatt ttgttctaaa tcatcaaatt atcaatgttt ctttcaacaa 240
tgccttattt ctgaatttaa ccatgtctaa gactagtacc ctgagttcga tactcagatt 300
catccgtttt aattttaaat acttgacgat ccggtgtgct ttctgataaa ccgattttcc 360
cttgaacata ttgtataaa gaaa 384

<210> 20939

<211> 390

<212> DNA

<213> Glycine max

<400> 20939

tagctttata tggtaaataa aaagcatgaa atcagaaagg taaatTTTTg gctgtaactt 60
atgaattatt tttagtattt actttatacc tgaatgaatt ccaaattgtc atataatttt 120

ttttaggatt cattttttca atttattgga aacatctcac atgtgtttga cagggatcaa 180
agaactttta aaatctttac ttgattttgt tctagacgga tttgttgatt gcttcttatg 240
tgtttgatca aatgccaaaa agaactttga aatttcctt tgcaagcttt accgattgat 300
ttctttggtc tatttttaat ttactgacta aaaaaatata aatttagtgg gtcagtagta 360
ctaactgaac atgcaatgaa acatgcacac 390

<210> 20940
<211> 398
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20940

agctttcttt ctggaactat caaacaacca taaaaaacct acagaatcat ggatgaatct 60
ttcatattta agtaacaata ttaggaaata tacaatatat ataaacaact agatttaagg 120
gtaatttaga agaaaactat tacaatcaaa ggataataag tgctaacaat ttaatcccaa 180
aaataactta aatttggcac ttatcaactc cccccaacct agaatccttc ttgtcctcaa 240
gcaaagtaaa taaaaatagt ataagtatgc ttctaaaatt atgaacatgc tttgaaaaga 300
atcaatcccc aaactgatta ngacgacatt tttcanaatg gaacaatgag aaatgaaagc 360
acaaagatgg aattcacata accaaaaaat gagattaa 398

<210> 20941
<211> 395
<212> DNA
<213> Glycine max

<400> 20941
agcttcttgg tgccctcccg tttttathtt ctctccatct ctcttttttc aactgtagc 60
agacatgttc atatgtctgt tgggtttgaa atgacagcac tgtccatcat tgagctctga 120
tataatcatg aaataccaag gaataactac ccttcatttt catgtgttcg tcaattacct 180
gatggatggt agtatagtca tgaccttatg tggtagacgt atgactacca aaaatactga 240
gaaatagaga tagagatatc tcaagatatg tatggcattg ctttgcaacca cttgtcatat 300
ccttatatca tatatatacc tttggcctaa gcataaattc agcttgcttt tgtatgtacg 360
ttaaggaac ctgagagagt aacacttata tatat 395

<210> 20942
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 20942

agcttgatat tcattaatag aattatattt gactatattt caagtacaca tttaacattg 60
 ttttctctaa aataaaactt aatgggcttc tagagcagaa gagagtttt caacttcaac 120
 caaataaata aacttcatag cattgatctt tgtttgcggt aactctaatt acaaacata 180
 cacatatata attaatcttc aattaagaga aatcaaatta cctcttcaaa caatgtgaca 240
 tataagatgt aacacaccac ataaaataat catgaaagga agagatatat ttatttccaa 300
 ccacacatat caaatattca tttaatgaat gtgaaattac aaaactacc ctaatacaga 360
 tactagtcta tagtgcgcta atatacaagg gctg 394

<210> 20943
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20943

agctttcttt tgccatttcc tgccaaggca aacatttgga aagttagttt taccaagaaa 60
 tgctactctt aaaacaaaaa tggcatataa cctcctccaa taaacacaaa catcaatgta 120
 aatttagagc aaactcatgc acatacttct ttacgaacat tcaactgcac aagatattct 180
 tctaactaag aaaaatgcac aatcaaggca ccttcgttac ctagattatt tatatgtact 240
 tccaagggtg atttgctatc tacatcacat gcacttcctt tgctaaattt acatacatgc 300
 atactcaaag cattttgggt accaaaattt gcacacgtgc acattctggt atttccaata 360
 cctatacata taaaactgt gtgatgaatc tt 392

<210> 20944
 <211> 566
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20944

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 nananttana nnctaagagg agnntttgat gacgtcgata acgacacggc gaatncaaac 120
 tcggaacccc gcgagcctcc acagtacgcc cgctggcatg ccagctagtt tggttaaaga 180
 gcaacgaacg tcacgcgcgc atgcaacaaa agcgagacgc ggctatacca gacaacccgc 240
 caaacaagg ccagggttaca gagaaactcg gccagtgcaa tattcaatgc aagcgatatg 300
 tgaacaaaga gaaagatata caaacgctag aagaaacgga aaaagaagcc aaaaaaacac 360
 cgggcccagg ggaaacgaaa cactcccctg cgttaccaga cataacgagc acacagaagc 420
 gcacacggcc agagaaaaac aaaagcgcgg gacagagcat cgacacgcga tgcgaccag 480
 aagcagcgaa aaatcaagac acaccgagcg agatacacac taatccagag cgtgccacga 540
 ggacaacacg tagcgagata acaccg 566

<210> 20945
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 20945
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 gtggatgaga cttttctatt ttcataacgg tattaagaga tctactgtat ctatgatcat 120
 cgtggtatat tggcctttga taagatatct attacctact taagatccag ttgctggcat 180
 ttagccccctg aagtaactca gatttggcac taatcaactg tccccaacct agaattcttg 240
 ttgtcctcga gcttagagca ttaaatactt tcagtgtgcc tctgaaacta tgaacatgca 300
 ttgtaccgaa tcaactcctc tactgattat gacgacattg ttgaaatgga cacagtgata 360
 aatgatgtct catagatgga atgcacat 388

<210> 20946
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20946
 agcttgtgtt tgaggtactt acccgttgaa gatcgaagaa cgatgaagaa cgaatgaaga 60
 acgtcgaaga acggtcgaaa ccttcgcaaa attcctcacg gaaacgttac ggaagcaaca 120

gccttctgga ggaatcttct ggagggccca agtgggcctg attgctattt gcacccccat 180
 ttttactaag tacaccccct gccttatttt ggtgattctt ttttcgtaaa gttacggaaa 240
 cttacgaatt ttgtaaccat acttgttttc tttccgtaat gttacggaac cttgtggatt 300
 acataatcat cccctttttg acttacggaa tgttacggaa cctcactaat tgtgcaacga 360
 tgctccatt tgatttccgg tgtgacacgg aa 392

<210> 20947
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 20947

tgctttgtgg ggtgattcag accttgcttg ggagtgcctg cctgctatga atgctgctgg 60
 gggctctgcta tgcgtttgga ataattgtaa ttttcagggt gatcttagag tgtctgaaaa 120
 gggtttcatt atgctgggag gggtttgat tcccacatg caaaggatag tcgtggtcaa 180
 tatgtatgct ccctgtgata ttgtgggtaa aaggcaacta tggcaggatt tgatcagtat 240
 gaagttgcaa tccaagacc cgtgctgggtg tctagatggg gattttaatt gcatcacgca 300
 cccctctgat agaatgggga gctatcgtgg aaattcacgg ctttctatta tatctgaatt 360
 taatgactgg ctcg 374

<210> 20948
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 20948

tgcttttttc tacacggact tacctagaat caattgcttg gacagcacca tttagcctct 60
 gttcccttta ctgcgccga tactcactac gcgccttaat tgactaaaca agatacctgc 120
 acatcctaag ggaattcggg acgctcatga cacgcattgg cattgatagt ggtgcggact 180
 tgcttactcc atggaatatg tggtagcat gactgtactt gatcacgtat tgggagctct 240
 acatgatata caaactttat gacgaatatt gactatctac tcgatagaca ggtacattct 300
 ctgctgttat caagtcattg ctacctatcg ccgcatgcaa 340

<210> 20949

<211> 517
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20949

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 tccgccgca gctcctact ttttggttaag atgtagatcg tcgaccgaac attaataaat 180
 acacacgccc cgcagcgga gattcactac aaccacaagc cagtggctac gaagggctgc 240
 atcaattaga gagaaccccg cttaatccac gtgcaaagcc agcaaacag tgttccgcaa 300
 agcgatgaaa aaataaggtc caggtgccta ttagcagtaa gataaccact aagagcgcaa 360
 aggcgtaaaa cagatactcc ctaccgaagc aagaaaaag aaaaacactt atcacagtct 420
 gtctcggctc ctaatgcctg cgactaagag aacagaaacg cgagcccgcc gcctaaaact 480
 agagcctacc agcaccgcac cagaaaccac acgaccg 517

<210> 20950
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 20950

ttttcttggt atgaggaagt gttgaagggg gaaacttcct gctttttattg ttgaccacag 60
 agtggtagct ggagatatgt cgcggggggtc atgagacctt ggggacgtca ggtgggggtgc 120
 tattgcccaa aaccaagctt gaccaatccc gaccaaccc gggcatagtc ggtcagttag 180
 aacctgtgat gtacctaaagc aggcgagctc cttgcagtca acagataata ggaaaacatg 240
 accacaaagc aaggaggctt gtgggtggctg gccagctgtg aaacttgatt gatatgtgag 300
 atatggtctc tggtaatcga ttaccaaagg tgggtaatcg atta 344

<210> 20951
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 20951

atcttatgcg catatttcct tacgaacgtt cgcttgacac agacattcct tcaactaaga 60

aaaaaaatgc acccatatac aatcaaggca gcttcattac ctagattatt tacatgtact 120
 tccaagggtgt atttgttact tacatcacac acatctcctt ggctaaattt acatacatgc 180
 atactcaaag ctttttgggg taccaaaaat tgcacatgtg cacatcttgg tttttctaata 240
 acctatacaa acttcatgat gaattattgac tatctacaca ataaagtgtc acatttcatg 300
 ctcttttcaa gtttttgcta cctaaagccg catgcaaatt caagtatatatt ttccttttgc 360
 gactaaaatt gtattaaaag gtatatattc 390

<210> 20952
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20952

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 tctaattgca tttcccatgc tgattgacag aggtcgacac tcaataagaa atgatacata 120
 actaccaatt tttgctgtca agtctctcac aagagtcttc tcagggtggaa cttttagtgc 180
 tttgatggcc tcttgaaatg cttgaagcat tgcaatgcaa cgagcattgc caccagatat 240
 atctccagtt agatactgca agcccacctg aaacaccata aaacaagatc attagattt 300
 gggaaaaaat atttcaaaag gtctaggtca caaaacatat tgacctgacc caggtcctaa 360
 tcactgatat tcattaaaac accataaatt ttaatt 396

<210> 20953
 <211> 399
 <212> DNA
 <213> Glycine max
 <400> 20953

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 catcatatct ccccaaacc cataccacg aaaattaaag gagaaagaag tccacccaaa 120
 cctgaatttt cgaagtccca ctcgtagcca cgcacttcac ggccccgaaa atgcctcct 180
 ttgcgatttt ggggcagaaa tgatggccaa aggttgaagc tttgcttgga gcttcaatgg 240
 agaatgaaga aggagaaaat ggcaacgtga gggagagaga gagctgtctg aaaagtgtgg 300

gggctgagtg aagagagaga atagcttttt ttggttttta ataaaaggggt attctctttt 360
tctattatta tatttgagca atgccacatg tctccattt 399

<210> 20954
<211> 385
<212> DNA
<213> Glycine max

<400> 20954

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gtgacttgag acacgaattt gctaagagtt ttccacaaca aaaaggtctt atcctcttaa 180
aaagacaaat cgtttttatcc tcttacaaat tccttgcca caacacttgt gattcaataa 240
ggaattatct gagtgtcaa attgatcaat ctatcttttt caccgagagat atcgtcttat 300
cttcttctct attctgaaaa gggattaaga gaccgacggg ttcttggtgt gaaataattc 360
taaccacaat agaagaattg tcctt 385

<210> 20955
<211> 395
<212> DNA
<213> Glycine max

<400> 20955

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accgactaca agagctagat ggcaaagcaa tcccacgaac gtggaatgcc acccacctga 120
agttctactt cagttgacct acactctaaa cctaattgtg tactcttttc cctatgcaag 180
ttttttgtcc caaaatata aaatccaggg ttttggtctg gaggggtttt aatgaggcac 240
atttgggcaa cgaagggaat ttgtactcag ttacatacat tgaataaaaa tctacatccc 300
ttccttttgc catttctctt atcaagacaa gagcatccat agttgtacct ccaaggctct 360
taaaacccaa ggtccatcct tgggtgagccc ttttt 395

<210> 20956
<211> 391
<212> DNA
<213> Glycine max

<400> 20956

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agaggatggg gcttcccctc tctctttctc ctttgcttc cactgcatct ccatggtgga 120
aaatcaccat tgaaggacct cattgaagct taaagatcca gcctccatag aagctccaca 180
agcaaacttc catcaagtgg taatcagagg aaaaagcaca acctatcctt aaacctccat 240
taatctttgc tttcccttct ctccattat tgtgtcttca tttttctttg ttgcaaccta 300
cccttttgca agcgagcgag gcgaggctca cgcgtcgctc ttccaaatga ggaaaatgca 360
cggagtcccc accaacgtct atttgtggaa a 391

<210> 20957

<211> 387

<212> DNA

<213> Glycine max

<400> 20957

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cagcacaaac cagaagaaga ctgatgcac tattaataat ctagaagttc aagtatgaca 120
actggcaaaa taactatccg aacaaggaag tggatctttc tcagcaacca cacaggtcaa 180
cttaaaggaa cattgtaatt taattacaac aaggttgggg actatgggtg gtttgaagga 240
taatgatgaa aaaagaataa aaaaagagtt gaaaaagaaa acgagaaaaa tgatgaagtg 300
atgactagtg aaaaagtgga agacaaagtg gtaagtgaag aagagaagaa gatatcaaat 360
gaacaaacca gtaataaagg taaagct 387

<210> 20958

<211> 370

<212> DNA

<213> Glycine max

<400> 20958

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ttttactcgg atgtatgatt gagtcccgta acatctcgag acactcgaaa ttgaatgttg 180
aacctctgag catattcata cgacaataaa ttcttactca tatgtctgat tgagtcccg 240

aacttatcga gacgctcgat attgaacggt gaagctctga gccaatatac acgaccataa 300
 ctttttactc ggatgacctga ttgatgctcg taatatatcg agacgctcga aattgaatgt 360
 tgaacctctg 370

<210> 20959
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 20959

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 tatccttaat aaaatgacat gaatttgttt ccttataaaa atatctatag cgccatgtaa 120
 ctaatatgaa agtcacaaga ggtgaagaat agtaaagaga aggttaaaaa gtggttgttg 180
 aaactgaggt ttttcattta cttttctaata ggccaaagat gcgatgtaaa agttgtgatt 240
 gttcgctttc gatccaacct cctgtttgca ccataatttg tgaacataat gataacaatg 300
 cccaacaaaa agaatcagtg cgtgcgtgag ctggagaaac aattgaaaca acttatccca 360
 caccaaacca aacgtgtttg ccatttgatc ac 392

<210> 20960
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 20960

tgcttttctt tttggtcttc ctcataggtg cggcacgaga aatcatgctc tattcatcat 60
 ctcccactcc aagtaggctt ccgcatcatt ctttcttta aatggaggaa ccgtgagttg 120
 aataccatca atcctgctat tgactaagaa caccgtcatt cctctttctc cttctttctt 180
 cttcattacg acctctatcc tccatttgat ccaacctctc atggagcgca tcatgtagat 240
 gaggcattaa cctctacaca ttagcatca aagctcgcat gtggaattgc gatagcccca 300
 ctccatcatt aggattatta cctgacatc 329

<210> 20961
 <211> 540
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20961

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tcgacaaatc cctccccct accaccactn tagntcattc gagcatttcc acaaaccttc 60
cccacnaaga ggaggtttga tgctgtatac atccnagcga cnannacnag nccgccncga 120
ggcaccaaga aagaccagca gcaagccagc catttagacc catagacaca caaacangca 180
cgccgacatg gattagcaag tggacggagc tatccaatgc agactgacac caaaaagaac 240
cacacccacc atcaaaccga cgaaaaagac taccgaaagg caagcacagg aaccccaatg 300
acctatggtg acagaaaggg gaaaagaggg caacccaaat aaatgcgcgg ccaccacgag 360
gaggagaacc ccaacaacag ccagcaaaaa gaacaacgca tagggaagat cagccccggg 420
tcgtggtccg aaacaaaaaa gacacagaat gaacaccctc tcggaagcg accacgaaat 480
aacaaggccc acacaaggtg gcgagaaggt gagactgccc gccaaactatc aaaagaagcg 540
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<210> 20962
<211> 389
<212> DNA
<213> Glycine max

<400> 20962

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ctgtctgact ggtctgtaat cttcttccat cattatcttg tgcatacagt aagcgtggct 120
gattcttttg agatctgata tgtgccacct aattgcctcc ctgtatctct taaggacctt 180
taccaacctg ttttcttttt ctgctgtgag ctactgctg atcaccacag gcttggctct 240
gttcttctcc aagaacacat acttcaggtg gttgggtagg atcttcagct ttaccttggg 300
cttctctgat ggactccgc ttttcaattc ttcgaaactg gtcccatta cagtaatatt 360
gtcttcacaa tctaagtctt ccaagaaag 389
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<210> 20963
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20963

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ttntttttta tcccatctac gcatggaaga cttttcatca tattcttttc atgtaccaac 60
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ttcaaagctt gagtgtggaa gtgaccaaatt cttcgatgcc ataaccatga atcatcaatt 120
gttgctctca tggaaacgct agtactagta gtatacttga agcttattgg aaaaatacta 180
tttactttca acattttaac ttgacaatc tctgtgcttt tgctagtgtg atcaaatact 240
gcacgtatct cctttgaatg aacagattag tctttctcca tcatttggtt aatgcctaag 300
agattgtctt taagatctgg aactaaccat acatctctga tgaatcttgt acctttcttt 360
gtctacagca tgat 374

<210> 20964
<211> 397
<212> DNA
<213> Glycine max

<400> 20964

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gttccacact gaattcattc tcacccatat gggtagatag tctacaattt atccctactt 120
gcatcattaa atactattta acgttatggg taaatttaat ttgccctatg tgggtttgggg 180
agtatcactt tggcaccacg tgggtttaaac ttgtcactt tgctccctc atattttcat 240
taacatatat gttatctcct tgtgtctttt ttgggtgtca actatgaaaa gcttatcat 300
gctataatcc attaaaccag cagggtttaca tatccgacat gtctgtctgt tcctaacttt 360
tgacaaggag aacatatattc taggaaaata aacaaag 397

<210> 20965
<211> 385
<212> DNA
<213> Glycine max

<400> 20965

agcttgtgct cactgttgct accccacaaa gctccacgga atttgtctcg gccatgctct 60
tccttgcgag cctcttggt ttcttggtca agggctcttg cggtagctgc attttcttct 120
cgtaactcgg cacactcttt ctggacgtct gtagcgacta acttgaattt ttctttggca 180
agtcttgctt ttcctagttc tggtttttaga gctcggactt cttcactctc ttccggagct 240
tcgaagttcc cctcattgat aactttcaat ttggagagcc aatctaacc cctgttacga 300
actttcaacc attcatgata accaccgatg atgccattac ggatgccctt aagttcttta 360

tctttcctta acgggctttc ccacg

385

<210> 20966
<211> 396
<212> DNA
<213> Glycine max

<400> 20966

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aaaccaatag gtctaactag gccaatgggt cttgttcac acctaaatta tttgatgttt 120
tctaaagact aataatatta aagaaaaaaa agaaaataat tcaaatttac tttttccct 180
ataaatgtat aattattaat agtcaaatcc aagcacaaaa tgtgcaaagg attgttgcac 240
aaaacttaat tacaagtagt accacaccaa cacctataaa tataaaacga aatattggtg 300
aaaaagataa gaactagcag caaatactta cccccacaca ttatagtcag taaaaacata 360
atgtttttat ctcttaaagc acctgccgca acctac 396

<210> 20967
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20967

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agtccatgca aaaacttcta aattcatttg gtatttggga aagccattca ttgtttttca 120
ttctcaatgt ttccaaaaat cactttgttg tgtttcgatc caattcaaaa gcaagtttca 180
aatcactgg ttgctgattc ttccaaaac atgttatgtc caagaaaaat tttctgttta 240
agtcccaaaa agagttatat atattctaca actacgctaa cagaacaaaa ttatttagtg 300
gtgtgtacta caaaaagag ggtgtcagac cctaatttca tccggngaag gtttttatcg 360
ttcgacacaa cccgatcaat catatgcaag 390

<210> 20968
<211> 390
<212> DNA
<213> Glycine max

<400> 20968

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 tttatcta atattttacc ttttaaaaat ttaacttaaa ttttaacaata cccgtataaa 120
 gactagtga tggaaaagac aagtacaaga ataactttgt attggttgat tcaactcaact 180
 cttcagtaaa aattaacttt cgaataccaa tgtttgaaaa cccaaaatca gatcgctcat 240
 taaacaactt gattatttca atatgcaaca tgattaatct aagacaaaaa ataactcctaa 300
 tttacaaatt tagtatggaa tcaaccaaga aaaggctatg cacacaattt gtcaagcaga 360
 gttttcgctc aaggacatag ttcattcaatt 390

<210> 20969
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20969

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 cctgaagcta cctacaatcc taagatcaga gttcataaac tatatagccc acatggctgc 120
 gtgaacaagt ccaacaagca gatggaaatt ctttcataaa actatactaa agggagacat 180
 catagcggga gccctacagg gttttatgta tgcccatatt gtgtcatcca atttcaatga 240
 ccaaactctt ctatatgctc tcacagtttt ttgtaaaacc ttctatagat acctattata 300
 tacctcaact taaccaattg cttgatgggtg atacaaaagta ataaccttat gggtaacacc 360
 atatttagcc acatggctat cagacaa 387

<210> 20970
 <211> 281
 <212> DNA
 <213> Glycine max
 <400> 20970

tgcttggtgt ctatgtgctc accaactact gatgagaatc cctatcgag cagcatggct 60
 accatctoga ttacaccacc gtgtaggacc gccgtcaccg catccgtatg atgcgcctaa 120
 acatccatgt gaactatcaa ggccggaggc acccgaatat acaatctctt agatataagg 180
 gaaagcgctg ctcatgaatt gacctcatcc ctgagatgta accttattca ctagaatcgc 240

cgatatgacta ttaatgtttt ctttttagtc tgcgtggtg a 281

<210> 20971
<211> 391
<212> DNA
<213> Glycine max

<400> 20971

agcttccatg tccaagtttc ttatgccaga cccaatgatc ttgtttgaca taaagtaagc 60
aagattttga tttgataact ctcttagtct aatcttataa agatttcctt ttctcttagc 120
agaataaagt aaagacacat ttttgttctg gatgatacat tcattccttgt taaagaaaac 180
atcatatcca ttgtcacata attgagttat gctcagtaga ttgtgtttga gccatttaaa 240
aaataagaaa ttatcaatag gaggatatgg atgtatacct atcttaccba ctcttggtat 300
ttgccctttt ttattcccta tgaaagtgat ggttccacca tgataaggag tcatacattg 360
gaacatgcac ctttctcctg tcacgtgccca t 391

<210> 20972
<211> 536
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20972

cccactcacc cnttcgccga ttgcgcgcgcg aactcaana tcattgacgc ttcaataaca 60
ntnnnaannc agaggggnntt tgtgctgagt ccttcggaan cccanncaa nntcaccccg 120
acgcgcacaaa catacagctg cagcgagccc gctgtccgtt ttcacacca accacagaga 180
cggcgagaac agacgtcaat caccacgacc aaagcaacca caccacgaag agtcctgcga 240
accgacagaa gaacgcaccc agaaaacggc gaggcacggc agaaaaaaaa agtgaccagc 300
cagaggacgc cagacaaaca acacaaaaag ccggcaccca gccgcacacc caaaggggtg 360
ccatccaaca aggcccggag aagagcccac agggggaagc aagcgacgat acaagcagac 420
gaagacgaga tgaggacggg gcaggaccag acacaagaac aaccacgca cgtcaaacga 480
cccagggaca gcccgcgag ctccagaacag actgcacaac gagaaccgcc acgccg 536

<210> 20973
<211> 377

<212> DNA
<213> Glycine max

<400> 20973

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ctctctcccc tatttttcgt ttttttagtta taagcttttt cttctctttc tcctttattt 120
ttcgtttatg caattccagt ttgactattc atttttagcaa taaaaattcg ttctctaattg 180
attaatggaa agctaagtcc ccaacgctgc tttctcttga ggatcaagca cagttctctt 240
tgaggggtcta ttattattgt taaattctga tcaagttttc cttcttcgta tatactctcg 300
atgtgttgct attaattcat gcattgcttag tgcttgatta attttctctg cacttaattt 360
acgctcatgc ttaatga 377

<210> 20974
<211> 367
<212> DNA
<213> Glycine max

<400> 20974

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atcttgattt ccatttgca tcgtaccaa gtcaccgctt tggtaggatg agaagaaact 120
tccatgtgga gtaacatgga aggaggcacc ggaatcgaca atccaagagc tatcatcaca 180
agcaatgttt atgatattac cttcaccaac gagatataac aaatcttctt ttgaaactac 240
ggcagtagta ttcttctttt ctttcttctt tgttgggctg acttgggtctg gcttaacgtt 300
accgattgtg tgatctctct tgaaggattg acattctatc ttctgtggc ccattcttcc 360
acagtag 367

<210> 20975
<211> 384
<212> DNA
<213> Glycine max

<400> 20975

tagcttgtct ttacaactct aaatgagcga tcacttcata tcctttcatg ccttgacaag 60
aataccatta ttgtttttct tccttaatga tgaggacatg accaacagca atggcaagga 120
tccaattgaa tgacttggag gacctatgac aagggctaga tcaaggaaag caaacgaagc 180

tcttcaacaa gtgttgccca tactatttga atacaacccc aagtttcaag gagaaaagtc 240
 caacgttggtg agttgtatca tgaccacat ggacgatgac taaatggcgc cacttcctct 300
 caattataga gtgttcagtt tgtctaaata atggcccaat ccatgtgaag tcggtgacc 360
 aaagatatgt cttgggttaa tcaa 384

<210> 20976
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 20976

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 ctttctatga gagcatctac cgcgagtgac tgggcttacc actgagtggg gatgtcttat 120
 cctgtacttc tgggcgcccg acgaggcttt tcattgacct ggtacctcat tacatatagg 180
 atggaatcat agaattattg ctgcataacg cccgcgtata gagacatatt gatcgcttga 240
 gtgactttgt ggctggaacc ttaaagacat ctacggtgtg aaaatgctgg atacgtcgtg 300
 ggtcaagact gcatggctcg cgcactggcg ggaatgacat agctatgtcc tgggtactgag 360
 tacttcatga t 371

<210> 20977
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 20977

agcttcattc tttcctctta gtaatgcctt attcatcata tctacaccat taaaggattt 60
 caccttcaaa gggccacaaa catttgaatg caccaattca agcaactcaa attttctgga 120
 gggagaatgc ttcttgaagg atactctggg ttgcttacca accatgcaac atgaacattt 180
 ctccaaattt gcattcttca atcctagaaa catatccttc ttggctaaac aattcagccc 240
 tttctcacta atatgactaa gccttcagtg ccacaaaaat gcctccatat ccataacatt 300
 cacattgtct ctagcaacca aagcttttgc ccaatacaac tttgaaagtt tctccccctt 360
 ggccacaatt atgttacct tagtgagttt ccactttc 398

<210> 20978
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20978

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agcttgccat tctgttcacg caggcgagca gggatgcttc ctccataagc aacagccttc 60
tggaggaatc ttctggaggg cccaagtggg cctgggtgct atttgcaccc ccatttttac 120
taagtacacc ccccttttct atttttttgt aactctttat ctgtaacgtt acaaaacttt 180
acgaactttg taacgatact ttttttttct tctgcaagga tacgaaccct tacgacttat 240
gtatgtactc ttttttagct ttcaaagaag ttacagaaac ttacggattg cgcataaaca 300
cctctttttg acttccgtca cattacggaa gttcacggat cgcacaagcc tgcttccttt 360
tgatntctga gacatcatcg aacttcattt at 392
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<210> 20979
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20979

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gatcgtgaaa ccaacgaccg cccgcgaccc caagcgacgc agagcagctc aatacaggag 120
gaacagctga cggacgactg gcaaacgaca ccagacaaag caaaaacggg gacacaagca 180
acgaccgcaa aacgagagga gcaacgtacc aagaacggga gaacggaaga ccgctacgca 240
caaaaaaac tataagagga agggcctaaa gaaaccacac aacccatggg aagagactac 300
cgaaaagcgg caaccacga gagcactacc aacaccacaa caagacgggt cgcgccacag 360
aataaccaat acgcggaaaa gaggtaaaac agccgg 396
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<210> 20980
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 20980

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tcttcttatg cttgatccat catacaattg ataactatat cagctattta aagcctacac 60
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aaatgctgag ttgcaatcaa gttgtaattg caagttgaga gacagactaa gtaacaacga 120
 gttagtata taaaaatgct aatatatcaa ttatgggtcaa ttaattgtct ttagtccttt 180
 aaaagtgaat atactataat atagtagatg tatcttgaca ctcttcgaat ccctcgata 240
 tataaaagaa aaaaaatagt agatgtatcc tagtttggtt tctgtttgac accacattg 300
 aggaaatata agattagtga gtcaataaag cttatatgta tccatatgta atattttggt 360
 gtgtggggccc ttaaatttat acaaat 386

<210> 20981
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 20981

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 aaacccacct ctgtcaagtt gttgtcttgt ctacaggatc aatttcagtt agatcagcca 120
 aaacataatt ccagcacagg atcatacatg aaaattcaca agaagtgcac ataataataa 180
 aaaaaatggc aaagaacaac aacgttggtt tgctttcatt tacatgggtc caatacaatt 240
 ttatttaagc tgggtcaattt tccaattccg ccatcaaaga aagaaacgaa acccgctggt 300
 gaaaaacggg tgtgggggtg gtggacgggt aaactatgct aaagtttttc acctagttac 360
 attcacattc tgcagtatca actttctgca tatca 395

<210> 20982
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 20982

agcttttagc taattcaaac gacaataatg ttttgctcgg atgtctgatt gagaccgta 60
 atacatcgag acgctcgata ttgaatgttg aagctctcag caaattcaaa cgacaataac 120
 tttttactcg gatgtctgat tgagtccag aatacatga gacgctcgaa actgaatgtt 180
 gaagctctca gcctattcag acgacaataa cttttttact catatgactg atcgagtccc 240
 gcaatatatc gagatgatcg aaagtgaatt ctgaatctct aagctaattc taactacaat 300
 aactttctgc tcggatgtct gattgagttc cgtaatctac tgagacgctc aatattg 357

<210> 20983
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 20983

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 tcctaagttt tcattaccat tgtttaatac aaagcatttg caaccaaaaa catgaagatg 120
 tgaaatattg ggttttctac cattaaacag ttcatatgga gttttcttta aaatgggtct 180
 tattaaagac ctattcatga tataacatgc agtattaacg gcttcagccc aaaaatattg 240
 tggaacagga gtatcattga ataaaggctt agcaatctct tccaaagatc tattattcct 300
 ttcaacaact ccattttgtt gaggggttct aggtgcagaa gaattatgtt caatgccatg 360
 cttttcacia aatagatcaa attctttatt ttc 393

<210> 20984
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 20984

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 ccaatgattt caaaacaaaa cgatgttggc gcttagcgca tcctttcccg ctaagctcag 120
 cttgaaagct caactgacaa aatgaatttg ggacttaccg tacaatgacg cgcttagtgc 180
 aactataata aattctcata gagaggaagt ggcgcttagt gcacatcca cgctaagccc 240
 actgcttaag gtgcaactca cagtgaagat gatgggctta gcgcactgat gtgcgcttag 300
 ctgaaccatt caccaatca atcatgggtc tctgcgctta gcatgagcaa gctcagctta 360
 gcgcgtgaag agatggtgc 379

<210> 20985
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 20985

tggaagctgg atctttgagc tttcaagagg cccatcaatg gtgaatctcc accacggaga 60

tgcacgcgaa gacaaaggag aagaagtgag aggaggcgcc atccactacg gaataaccca 120
 tggaataagg atctttacca cccacatgat cattggataa gaagcttgga gaggatgcct 180
 cattggagga aaataaagag ggagagaaat gagagagggg gggagcacta aacttgaagg 240
 aaaaaaaaaag tggttaaagct gaactttgag aggtggctca caagactctc attcatctaa 300
 gctacacaag tgttacac 318

<210> 20986
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 20986
 tattttgtgct caatgaaagc accaatgata cctagctttc gagggctagg gaacctccgc 60
 gatacccggtg accttttgaa gctcgaagga actcgaag agagagaaaa cgcgagttca 120
 gagagagaaa ctagaagaag aaaaggactc gagaggaagg aagagaagct tctggatttt 180
 tctatatcc ttcaagggtt gttacaactt atttatatgc gcgaggggtcc acaactaacc 240
 gcaagtgggt agctactgct gctagcccta actaactaaa caacatctaa ctacccttcc 300
 cgccaacgaa tcacaagaac agcttttacc caggccctct tatectaact ggtagatata 360
 ccagtgttta ggtagttgct tcgttcgtct 390

<210> 20987
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 20987
 atcttatgcg catatttcct tacgaacgtg cgcttgaca agacattctt tcaactaaaa 60
 aaaaaaatgc acccatatac aatcaaggca gcttcattac ctagattatt tacatgtact 120
 tccaagggtg atttgttact tacataacac acatctactt ggctaaattt acatacatgc 180
 atactcaaag ctttttgggg taccaaaaat tgcacatgtg cacatcttgg catatctaata 240
 acctatacaa acttcatgat gaatattgac tatctacaca ataaagtgc acatttcatg 300
 ctcttttcaa gcttttgcta cctaaagccg tatgcaaatt caagtatatt ttactttggt 360
 gac 363

<210> 20988
 <211> 80
 <212> DNA
 <213> Glycine max

<400> 20988

agagagagag agagaaaatc cggggggggg ggtgcccaatt tattgaaatt agggaaaaaa 60
 attgaacttt taagtgtgtc 80

<210> 20989
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20989

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 atttttcacc atagagatgc agcgggaaggc aaaggagaag aggagagggg aggcaccatc 120
 cactatggaa taagccaagg aagaaggagc ttcaccacca agaattgcct tggataagaa 180
 gcttgaagag gatgctttaa tggaggaaaa gaaagagaga agggggggagc acgatattca 240
 aggaataaaa gagggagaga agtggaaactt tgaagtatgt ctcaacaagac tctcattcat 300
 canagttaca acaagtgtta cacatgcttc tatntataga ctaggtagct tccttgagaa 360
 gctntcttaa gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagctaga 420
 gcttatctac acacaccct ctcataacta agctcacctt cttgagaagc 470

<210> 20990
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 20990

agcttctaca ttggttgaaa accggtatct acgacgggcc ccacaccgtc tttggtccaa 60
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 agaatacaac gtcagtggct ataaaagaat agacgtttta aaaaaggatt caacgacgca 180
 catattagac aaccctgtgt ttgtttgggc catttcaacg tcgggttcgc aagactcatc 240

gttggttggtg tccatatcaa cgtcgggtac caataacacc cgtatttgtt ttgtttctgt 300
cacatcggtg gcgggtcaca ccgacgttgt ttggagtatg taacgtcagg gtgtgacacc 360
gtc 363

<210> 20991
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20991

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acaacaagtt ctacacatcc acggtgcgcg cataaaccga ccatcccctg ttgccacact 120
ccaactgagc tcacgtactc ccacgtagcc catatcctcg tttctctcaa caccgggtcc 180
ccatcaatcc tctcaagctt ccacaacatc caagcaaac aacattcaaa cagcacaagc 240
tatcacagcc aagcaaaagc agagcaaagg cagataactc tgctcaaaca ccaacaaaaa 300
tcacagcttt tctcacttaa agaccacagt aacaatttct togatccaat togttaaccg 360
ttggatcgac tccaaaattt tactggaagt ctatagtgcg taagcctaca ttgtgaccgt 420
tgngatctac tagcaaacat caagaactca ttctgtacta ctctttccac agc 473

<210> 20992
<211> 406
<212> DNA
<213> Glycine max

<400> 20992

agcttgggta taagcttttt ttgtaaaagc caagagtgat tgtgaataat acttgtaact 60
ctgttaaagt tagtggaact ttttagattt ggatagccca atgtgattca tctagacaat 120
cttatatacc gatgggtttg atgattacac agatataaat tgctgatgga ctaatgattt 180
acgcttaagg aatagggca tatttgatat aagcttgatt ggaatatact tatatgctta 240
tgtgttacca gttatcatgc aaggtaattg gaacttattt gtataaccac tatattctgt 300
gtccagagca ctgctataca gagagcgttc aatgatattg ataaaattag tcctatgcgc 360
tatgtgttca tatgtgatta taggacatga ggaacctaca ctaatg 406

<210> 20993
 <211> 241
 <212> DNA
 <213> Glycine max

<400> 20993

atcgaaaagt tggctgagac ttgtattttc ttcacaaacg gggcatgcat gatgaccctt 60
 aacactgtaa ccgctgagat tcccacatgc tggaaagtca ctaatgagac agaagagcat 120
 tgcactcagt gcacaggtga tacttgagaa tcgcatcggc ctctactaca ccctgattcc 180
 acagatttct catatcgta accaacggac ttagatagac atctgtgatc tttcctggct 240
 g 241

<210> 20994
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20994

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 aaacaaaggg tttcaaagtc atgcaaggct ctggtaatcg attaccagaa gggaagtttg 120
 agaaatagct gttgaaaagg gttttgaaat tgaaatttga acatgtaatc gattaccatn 180
 tntttgtaat cgattaccag caatgaaact cctgatattc aaattcaaaa gtcacgaccc 240
 ttcaaaatat aattgtgtaa tcgattacca gaaacctgta atcgattacc agtgaagaaa 300
 ttcatataaa acttcttgaa aagacacatc tctttacacc atattgaaaa ggcattgaatg 360
 gcctatatat atgtgtgtgt gtgactt 387

<210> 20995
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20995

ctcaagcttg agaagctctc tatganatga aataatcgac tgccccattc tgtaatcaat 60
 ttctaagttt ctaggaatgg aaaattagag ggatttgaat gaattaattg actatctcat 120
 ttgttaatca attaaatttg ctttttctgt taaaactata tatacactta cttgttcatt 180

cttatttagtg actcttgatt agatcttatg ttttaaaaat cctttctaag gttatctaac 240
 ggaaccattc tgcatttcaa tgagagattc atgggtgttca agatttggtc attttttacc 300
 atggtttgag caaggaaaga atgacttgaa gatattgtga tatgcacatt ttggtgtatt 360
 caatcatggt tgcatttctt tctacgttat taccttgatt aagggttatca aggatattat 420
 gtgagttctg atctttcttt tgtaagggtca cgacaagagt ag 462

<210> 20996
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20996

agctnttcgc aaagcttatg gtaaaatccg ggacctagcc atggtagaag tctccacaga 60
 ggccattgcc tccctcgccc aatattatga tcagccattg aggtgcttca cctttgggga 120
 cttccagcta tcacccatgg tagaagaatt taaagagatc ctaggatgtc ctctaggggg 180
 aaggagacca tacctcttct catggttcta tccctcatta gctagaattt ctaagatagt 240
 ccaaattctca gcgctggaat tagaccacag aaagcaagtc gaaaatgggg tggttggaat 300
 agcgagaaaa tatttgaggg taaaagcaag aaacttggtc ggtaaaggcg aatgggcccc 360
 attcatagac attctcgac tgtn gatctt cggaggagtc ctctttccga atat 414

<210> 20997
 <211> 98
 <212> DNA
 <213> Glycine max

<400> 20997

ctcttttacg agttcaggac tatttgcatg gtatatgacg acaagtcagg attgttcgag 60
 actggtcgcc atagatgtca gtccagagga aataaaac 98

<210> 20998
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20998

cagcttttat ctgatatgaa ttataactac caaagttgag tctaattctat tgattttttt 60
 tttggtcttt ggacatggag agaagatgca gacgtgcttc tcaaacttgg ttccaaacat 120
 gcacctactt ttacatgtc aatttttaag atctcagctg aaaatctact tacaccgcct 180
 gttttgtata aaagcttata aacgtgatag gctataaata gaccttttaa catacctatc 240
 tcttttttgg tttgcttcac ttgtcagttc gatttacgtg aggcaaggta ctatttttat 300
 gagataagca aatcaaggta attttatgac tntaatcctg tttggtgtca attttcttca 360
 catttattaa ttntatgact tcttatttta ttttttagac tgaagtca 408

<210> 20999
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20999

tgtgggtatg atacacaaaa gaatagaagc acataattga ttatattcat cttctaattn 60
 tgccggatca actagttaac ttgaaattga agagcgatta atatgtttca cccttcataa 120
 cttataagta catgttgata acaaaaaata gcatcttcaa atgacaaaca cattaaattt 180
 attttaatca ttttgaaaat tatgtatttt aaaaaatatt gggcttcact atggtcacaa 240
 agttgtatag aatttgtggc tggtgggcat aattatctct aaatttagat tgttatttta 300
 aggaaaaaaa atcttgaaag atgatagaga atgaattcgg tgatcgaata ataataacag 360
 ttatataaca atgatgaatg ttgttattga aaagcacata atattcatct tctaatttca 420
 tcggatcaac t 431

<210> 21000
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21000

tgcttataaa tcttcccaaa atcatacaaa caaagattaa tagactagaa tgataacggt 60
 cttattttnt caatcaaaca atcggttttg atcaaataaa aaaaggactc attgacatgt 120
 ttattcacca gatttttaaat agtctgctgt gcatgacaaa aagaaaagca gtgtcgagaa 180

gagatttgca ctgacaaatg caattacagg taaacccta cctgggggaa aaaaattgac 240
 caagcaaacc tgtcaatgct aggaatggga aaagaacaaa gtaaattgaa atatgtatca 300
 gaagtaccgt tgacagacta ccacgtgag cctctggtgg aatctcaaaa tccagttcac 360
 gtttctgcaa aatcatgcat ct 382

<210> 21001
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21001

tgtaatcgat taaaccgata tgaaaactta tctgcaagct attatacact tatgtaatca 60
 attacgatta gcctgtaatc gataaaaata gagagtttta aacacagaag aaattttcta 120
 actttagaac ctttcttctt actcctacat gatgatgcat gatgcacata tgaaaagata 180
 gagactaaga tgcaacacac atacaataat caatacaaat gtcactcaa agagttggac 240
 atgtaaaaga caaaacttct tcaagcttca aggctaagtc ttcattgttgcc tccacctatc 300
 tctaacaata gacagggtat ctctaacctc ttaattatnt ggatatacnc taaccacttt 360
 atctcttgca ggtatntaat tatctacaag caacacatta tctgttagta ctaaattatc 420
 tactagctnt tatctcntaa atatatatta tctctaata 458

<210> 21002
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21002

agcttacaca aacattcatt agtccaaaac aactcaaca natagtcac atccatccac 60
 aattccaatc aatcatgctc agtatgatgc atgcacctga cctcaaactc caaatgcaat 120
 gtggtaccat tatcaaggaa atagcctaag agtctccaca tgacactctc acttatgaaa 180
 actaggcagt aagtgtcgag gtcaccctgt catgcacagg aaactcccc cccttggtga 240
 tcaacctgag totcaaggga attccaaatt gagtgacatg tgtgacatcc tggaaatttc 300
 taccgggaat ttntgtaaac ggtgcatntt gaatggctat atatatatat aagtattatt 360

cagtgtatgt atatatgtat atatattcct ggtaggagta ngatatttgg ggg 413

<210> 21003
<211> 423
<212> DNA
<213> Glycine max

<400> 21003

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acgagacatc ttgccaaaca aagtcagggtt cacgataact cgctgtgct ttttcttcca 120
tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180
aattatactg tgccagctgg agatgtatct tccccctgct ttctttgaca tcatgattca 240
cttgattgtg catctggta gagaaatcaa atgttgtggt cctgtttatc tatgggtgat 300
gtacccggtt gagcgataca tgaagatctt aatagggtat acaaagaatc tatatcgtcc 360
ggaagcatct attgttgaga ggtacattgc agaagaagcc attgaatttt gttcagaata 420
ctt 423

<210> 21004
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21004

agcttgaaga ggataattta atggaggaaa agaaagagag aagggggggag cacgaaattg 60
aaggaataaa agaggagaa aagtggaaact ttgaagtgtg tctcataaga ctttcattca 120
tcaaagttac aacaagtgtt atacatgctt ctatttatag actaggtagc ttccttgaga 180
agctntgttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt gagaagctag 240
agcttaggct acacacaccc ctctaataac taagctcaca tccttgagaa gcttccttga 300
gaagattcct aaagaagcta gagcttagct acacacacat ctctaataagc taagctcacc 360
tccttgagat gagaagctag agcttatgta cacaccctct ataataagcta a 411

<210> 21005
<211> 448
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21005

tccatcaatg aataacaact aataatgcac ctgacctcaa ctatcaaatg caatatggta 60
tcattcatta gaaaatagcc taagcgtatc cgcgcgacat tctcacctaa gaatacttgg 120
taacaagtgt cgaggtcacc ttgtggtgca tagacaactc ccctcccccc cccccccccc 180
nngcatggtg atcggcctga gtctcaaggg agttccaaac tgagtaacat gcccceaagt 240
ataagtattt cccctcatga gaaactacaa gtacttattg gcaagctatt tccatgaaat 300
atgaagtatg aaacataggc accatcaatg cattgaccgt ggataattaa agattttaat 360
tcatccccct ctagagatgc tttaaactct ttaaccattc tatttctccg accaaggata 420
tctatcatgg tcaactgcatc cctcatgt 448

<210> 21006

<211> 395

<212> DNA

<213> Glycine max

<400> 21006

agcttgtgca tagttgttac agacaaatgg acctacaaaa ttaataatca aatagtattg 60
ataaaaaatg tgcataaatc aagtacaaac ccttcaaaac aaagtaaaat caaatagcaa 120
ttttagctga aaatagaaaa agaagaaaaa aaagggataa gaaactaaag ttacaactaa 180
atgtaagaac aaaatcaaaa cccttgaaat ttaatgtgtg tgagagagag ctgaaccgaa 240
tgaattgtga cttttgaaaa acaaatcaaa gtgaaaataa atagaagaga gtgattattt 300
tgaactaaga aatatatact tcgtggcatg gtttttgac agccatatca taatcgtcct 360
ttgagaccat tgagaaatcg agattcattg gcaat 395

<210> 21007

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21007

cgtgacacta tgaaactcag ctnataagcg cgggttcggg agacaaagggt ttagcgttcg 60

ctatatgcga agatgatatt ccgagtactg tggatttggg ccgaccatgc cctcctgatt 120
 tccagctggg aaattggcga gtggaggaac gccccggcat ttacgcaaca agcataatgt 180
 aaacctttac ggttntaaaa gctctatagt tgggcctaag ctttagagtn tttccttttg 240
 ttaagggctt gtgtctcttg gttttgaaat tataatacaa ggatctttct tcatctgttc 300
 ctgggtctcta cccactctca ttcatttgta tgtttacttc tttttctgaa acggcagatc 360
 cgatgacgag tccccgaag gtactaatac ctgtgacccg tctatcgact tcgagcaaga 420
 aatgaatcan acggaagatg aaggaaatga tgatgt 456

<210> 21008
 <211> 489
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21008

tctcatactt tatctcgacc catcgatgtc gttaatttta ataacaaaan naatnaagcg 60
 tgggtgtgctg atgcactacc aatggcgatn agccggcccg ggatacttaa gacgactgca 120
 gcatgctatc tttgtccctc cgcaagcctt ccctggacag ggccctgaaa tcaccgaacc 180
 ttttatttta aaaaaaaaaa aatggcggggg attttgcttg gcccaaccacc cctggggccaa 240
 aattataaaa aaggacgaag gggaacgttt ttgcattcaa aacttttttt cccccattc 300
 aaaaccatac ccccggaatt tacaagtttg cagcctaggg cactattttc aattttttga 360
 ttcgtttggg ctgtattcat cacaacaagt agtatccttc ctaagcttca gctttcatgg 420
 gtatttgact ctttgtgctt aaatgcggat gagccaaaag gggggattcg gtggttctgt 480
 tggcgggga 489

<210> 21009
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21009

ntataagcgc ggggtctggga gacgaaggtc tattgttcgc gatatgcgaa gatgatgttc 60
 cgagtacttt ggatttggtg cgaccatgcc ctctgattt ccggctggga aattggcgag 120

tggaagaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttttaaaag 180
 ctctatagat gggcctaggg ttttagagttt ttccttttgt taaggctttg tgtcttttgt 240
 tcttgaattt ataatacgag gatctttctt catctgttcc tgggtctctac ccattctcat 300
 tcatttgcat gtatacttct ttttctgaga cggcagatcc gatgacgagt cccccgaagg 360
 tactaatacc tgtgaccgc ctatcgactt cgagcaagaa atgactctaa cggaagatga 420
 aggaactgat gatgtgtgac t 441

<210> 21010
 <211> 404
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21010

agcttgtaga atggctagac atgatacatg tcagggcttg gtttggttca aggataaaag 60
 ggggtgcccc cattatttcc atgacacaaa tgcaaaaaat gatgatttgg aaactttatg 120
 caaaactggt catgcatgcg cctatgcgga cgctcaagtg tcaaattttt atgggtcatgt 180
 gatgctaggg ctacagattc atttctctta tcttaaatac acccaatggt tccaaaatat 240
 gatcttttat caatttgtgc atttctccaa gtccacttcg ggcgttcggt gaaattttca 300
 cagcattcac ctttcagggt tagacacggt ttttttcttc aaaaatcggt tatgatcatt 360
 gaattntttt caaagaatag ttggaaatca tctcttttca aaag 404

<210> 21011
 <211> 394
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21011

tgtctancgc ttatgcttta cggagactat cttgctagct atcatcgcca agtaccaaga 60
 agagttaggt ctatccgcgg gccacgagca tatgattgag gacgaatatg cccaagtata 120
 cgcggaanaa aaggctagat gaagggtgat cgactcttta caccaagagg caaccatgtg 180
 gatggatcga tttgctctta ccttgaacgg gagtcaagaa cttccccgat tgtagccaa 240
 ggccaaggcg atggcagaca cctactccac ccccgaagag attcatgggc ttctcggcta 300

ttgtcagcat atgatagact taatggccca cataattaga aatcgtagga cacttgtatg 360
gtctctcaga ccttgactag atatgacttc cttt 394

<210> 21012
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21012

agctttatct tctttangaa tcttcttaag gaagcttctc aaggagggtga gcttaattat 60
tgaaagggtg tgtgtagcta agctctagct tctcaaggaa agtttctcaa aaaagcttct 120
caaggaagtt ttctcaagaa agcttctcaa ggaagctacc tagtctataa atagaagcat 180
gtgtaacact tgttgtaact ttgatgaatg agagtcttgt gagacacaac tcanacttca 240
acttctctcc ctttttcttc cttcaatttc gtgctcccc tccctcttctc tctccctctt 300
tcttttcttc cattgaagca tcttcttcaa gcttcttatc caaggctcat cttgggtggtg 360
aagctccttc ttccatgggt tattccttaa tggatggcgc ctcctctca 409

<210> 21013
<211> 353
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21013

tgcttctaca taccctaatt tcgtccggng acaattggtg tcgacatgog gatttttgcc 60
ggccgagttg agctgcttaa catcaatcgc tatgcaatcc atagggtttc acaatgttac 120
ggaaagaaat gagcaaatac tcataatgag ggcaattggt tgcgacatg tggatttttt 180
ccaaccgagt taagctgctt aacagcgatc actgcacaat tcgaagggtt ttgcaatggt 240
ttagaaggaa atgggcaagg aactcaagat gggggcaaaa tgggtccatta tagaacgttc 300
cacaaccctt gggccacctt ggatccacta gatgacttan gggggaagca acc 353

<210> 21014
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21014

agcttccatg atatagaaaa atgaaaaacc tcaattactt gaaaataata aaacacatgg 60
agaagttgac cataccagga aaataatfff tcagcaaaca tttctgcagc actaaaagaa 120
ccataagctg aaaaccacaa gagagatcgg tgtngattca catgcagaca agagagcaca 180
attagtagtc taaagttaca cccaatccca ctaacttgag aattctccaa acgagttcat 240
ttcaaattca taagcaatga cccaaaactt tcaaagatat ataccctcat acgataaaaa 300
ctactaaaat ggtattttaag ttgtacaagg aaaaatcaaa atacaccaga atagtcctct 360
taagtcttaa cccgtgacct caatatatgt attctacca tcat 404

<210> 21015
<211> 456
<212> DNA
<213> Glycine max

<400> 21015
ctctagatcc ttgaggtaat atgcgtcaag ctagtgacgt taaagaagcg cttactggga 60
ggcaacccaa ctctttttct ttgttttctt aatcattgca tatagttagg tttcaacttg 120
tttgggattg ctagagtaag acatcaacat gttttgtatg agaaaaaaag ggttgtaac 180
gcttctgtga agctgtggat gagaaataac tctgaaaaat ttttagtcat cactcgcctt 240
agcgctccct gtacgctaag cgaatcatcc ttcattgtgc gagcgagtcc tactcgcgc 300
taagcgcacc aacccttacc cattggctga aggggtccat ctaagcgaga cagttgtgcc 360
aagcccaaaa acttcttttg aatcgcattt attggaattg ggctaagcga gtcaactcgc 420
taagcgcacc tatgcactaa gcacaaatat ctctct 456

<210> 21016
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21016

agcttctaga caaattgcac gctagtatat ttctcgcctt tacgctaact tctataaatt 60
tctgttacia aaactaattt cgcctttatg cgcgcaaagt acataaagtt ggatctctac 120

cacacctcaa cactaaaacg aataaaccag atttgaatgc actttttttt ttttaatcat 180
aactacaatt tatcgtaaag agcatttcag catatgcac acaggtgaat gcatgtgttt 240
tetcacctgg attaaaaacc caatccatgc caatgccaac ccctacgtaa caattgggaa 300
gatcataaag aaggctatat ccaattcgga gatgaagaaa acgaaactgt attcaatgca 360
aaagaagaac acttggttaa tctctagcaa aggaatntac atcaatactc 410

<210> 21017
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21017

tgcagctaaa caggccaaaa agttgagtag attnttttcg agtggtcgtg aatcatcgac 60
taccatttgt attgcttgta agcttgggtt cttcatgttt aattcccgta aacaatttga 120
taatacaatg aaggggctaa tggcttatat tccaattgct tctatgataa gtattatttc 180
catctagcag atatatgaac atgaacacgg aagggggaac aaactcagac caacaaacag 240
gatctaaaat atgtccgtaa aattttttct tctgtgaaga taacgagtga ccgagctgcc 300
gttgacagaa tcacagttgc tgttcttcat agaccgata aagggaaca tattaatcca 360
ggtttccatg acaagcgtgg cgagtttgag gacacattnt cccttgaacc atcatttcgt 420
gagtcgatca cttttttacc c 441

<210> 21018
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21018

agcttttctc aagttttccg gttttccaaa ccttgaaaac ttgtgctatt catccttttc 60
attctcttct ccctttgccg aanagaaatc accatggact aaccgcctga attctttttg 120
tgtctctctt ctcccttttc caaaaagaac aaaggactaa ccgcctgaat tcttttgtgt 180
ctcccttctc ccttgtaaaa gaattcaaaa cgacacagtc tgagaattct tttgattctt 240
ccctttccca tatacaaaag atttcaaagg acaaaccgcc tgagaattct tttgtatccc 300

cattcacaaa gtttcaaagg tttaaccgcc tgagatcttt ctcttaacac attggagggt 360
acatcctttg tgggtacaagt agagcgtaca tctacttgng tttgactg 408

<210> 21019
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21019

tgtaggatta tggngtacct atcacatgtg gtactagggtg gttgtcgggc gatggtgcac 60
aacaagtttt tccacatcca caatgcgcgc ataaaccac catcccctgt agcccacctc 120
caactgagct cacgtactcc cacgtagccc atatcctcgt ttctctcaac accgggtccc 180
catcaatcct cccaagcttc cccaacatca aagtaatata acattcaaac agcacaaact 240
atcacagcca agaaaacaga gcaaaggcag aaaactctgc caaaacacca accaaaatca 300
cagcttttct cacttaaaga cccagtaac aattccttcg ttccaattcg ttaaccgttg 360
gatcgactcc aaatttttac tggaagtctc tagtacataa gcctacattn tgaccgttgg 420
gatctactag caaacatcca gaactcatc 450

<210> 21020
<211> 415
<212> DNA
<213> Glycine max

<400> 21020

agcttcaaaa ctcaactcga ggatttgaca aagaacagag cctccaaccc tcccttcgcg 60
atTTTTTTga ggtaatcatg atttctatgt ttttcttag ttagattgag cctatttagt 120
tatctcttgt gatttggtta cgttatttag atgtttttac atttctttg aaaaaccctt 180
gaaaatgaga cattataaaa gttgtctttt ataaaattga tttcgttttt gtgacctctg 240
ttgaaccctg atcacattgg cgtgatcgtt atttcaaaat gacatctctt tgatgtggac 300
cccaaaaaca ccattttaga cccttttaaa attgaatggg tgtttttacc cggatgttaa 360
aattgacatt gtctttgaaa tctatactaa attgtctttt gattgatata taaag 415

<210> 21021
<211> 428

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21021

aatggatgta aagagtgcac tnttaaattgg cttgattcaa gaagaagtat atctagatta 60
 tcccctagga tttgaaaact cagacaagcc taatcatggt tataaactga aaaaggcttt 120
 atatggtttg aaacaagccc caagggtctg gtatgagcgt ctgagtaaatt ttattttaaa 180
 taaaaaattt tctagaggta aagtggatag cactcttttt ataaagagaa aactaaatga 240
 tattctattg gttcaaatat atgttgatga tattattttt ggatccacta atgagtcatt 300
 atgcaaggaa ttctctcttg acatgcaaag caagttcgaa atgtcaatga tgggagaatt 360
 gaattacttt cttgngttac aaataaagca aactaaagaa ggaatanttt tcaaccaaga 420
 aaaatact 428

<210> 21022
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21022

agcttttgaa cccacacttg tagcgtcaat gcaaggaaac atgcttatgg ctaggaatcc 60
 aaaatttggg ttttagagta gaaaaacatg aaaattaaga tttgcttggt agaagttttt 120
 gctcgaattt gggctgcccc atgtttgata ctttacctag aggtagcgtg gaaaacacct 180
 tgcaatagtg tgtatacata ggtaaataata aggagcatga aattcctagc aaagtatgaa 240
 taattgtttt cttaaataga tgtatgatag tgtggaatgc cctttttaaa tgcaaataatg 300
 tgcaggatgt aattagcttt ccaatatgca tataaataaa taggagtgaac acagtaaaaa 360
 tttgtatggg gtacttcana tgtacgtaag tagtttgtga t 401

<210> 21023
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21023

tanacattca atttcgagcg tctcgatata ttacgggact ctatcaaaca tacgagaaaa 60
aagttattgt ggtttgaatt tgctctcagc ttcaacattc aatttcgagc gtcgcgatat 120
atattacgag actcaatcag acatccgaga aaaaagtat tgctggttga attggctcag 180
aggttcaaca ttcaatttcg agcgtctcgt tatattatgg gactcaataa gacatccgag 240
taaaaagtta ttgtcgtttg aatgtgctca gaggttcaac attcaatttc gagggctctcg 300
atatattatg ggactcaacc agacatccga gtaaaaattt attgtcgttt gaattggctc 360
ataggttcaa cattcaattt cgagcgtctc gatatattac gggactcaat caggaatccg 420
agtnaaaagt tatgtcgttt gatttggc 448

<210> 21024
<211> 308
<212> DNA
<213> Glycine max

<400> 21024

agcttcttat tcttggtga tgaagatgaa tttgtggcta ctcatgcac tcctctaattg 60
acaatagcat catttctggc actaaattga tgggagttgg aagccatctt ctgaattaaa 120
tttctggctt cagcaggggt catgtctcca aaggctccac cactggcagc atttatcata 180
cttctctcca tgttattgaa tccttcataa aaatattgga gaagaagttg ctcaaaaatc 240
tagtggtgag ggcaactggc acataagttt ttaaattctt cccagtattc atatatgctc 300
tctccact 308

<210> 21025
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21025

tatgctgcan atatttataa tagacccct cagtagcaaa actcaacaac agttttataa 60
ttatgatctt tcaagcaaca aatacaatcc aggttggagg aatcatccaa atctgagatg 120
gacaagtcct ccacaaaaac aacaacaacc tgtccctctt ttccagaatg ctgctggtct 180
aagcaagcca tatgttctc ctccaatata gcagcagcaa tagcaacagt cacaacaag 240
acaacaagca actgaggccc ctcccaaac ttccttagaa gagttagtta ggcaaatgac 300

catctagaat atgcaatttc agcaaaagat aagagcctcc attcagagtc tgacaaatta 360
gatggggtag atgggtactc agatgaacca agctcagtcc taaaattctg acaaattgcc 420
ttcgcaaaact atgcagaatc cgaaaaatgt gagt 454

<210> 21026
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21026

gtttttgccg gcgagaagaa gacttctgcg acggatacca cttangaaca ccatctatga 60
atgagcgcgg aagaagactc tggaccaata agaataagtc gaagaatggg agaaggttgt 120
tgctgggtgc acggacgatg tatgagcgcg gaagaagaca ggtttttttt ttagaaaatt 180
tattaagttg tgatttttaa atgaagggca ttttcgtaac ttcaatgaat tgctgggtgc 240
accaacaatt atgctgggtg cacctagcaa cagccggccc acaatgagaa aaagatccca 300
aattttatctt agtactaata tacctcaaat aatatattat tgctaaatta tatgtgataa 360
taaagtgtac ataaagcaat tataatttta ataaatta 398

<210> 21027
<211> 427
<212> DNA
<213> Glycine max

<400> 21027

gtgtcgggtgc gatcgggtact ccgtagttgt ggcagagacc tttaatcaat gccggataac 60
ccactgcact attggacttc tcaaggtcca cgggtgtct cggtgggtgca atacctacaa 120
actagtggat ggcattctaa ataagttacg ccatatggac attgatctgg gtcattgatgt 180
tatagaccaa ctgacatttg ggtagcgtga gatcagagtt atgggtcactg ggaaggatgt 240
tattgagcag gagcgtcatc caaatttgag ttagagtggc catgctagtg cgcattgatcc 300
gcacccgcct ccttgctacg ctccatgcaa aatcatgtcc cggggagcaa agtagctgac 360
ttatggcctc ttcatcctaa acctaaaatt ggcttcttct ctcaatgtac ttgcatcatt 420
gtccctc 427

<210> 21028
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 21028

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agtctgttgg taaccacctc cctcttttcc cctataaata ggggaaagag ggcaaagcaa   60
attcgttcag cccttctggt atttaggatt cacttgaaat tagtgacaaa aattgttttc  120
gtgaagaaaa tccaagccga ggtgcttccg taacgcttct gagacgtttc cgtgagcgat  180
ttcgtgaaga ttctccaccg ttcttcacgc atcttcgttc attcttcgtc ctacttcggt  240
cttcaaccgg taagttcccg aaatcaaacc tttcaattca ttctatgtgc ccttagtggt  300
ccacacttgt ttcgctgctt tttattttta tttcgtttgc ttcccgtagc cctgtattga  360
tgtgttttaa ccattcatat aagtcgtttt ctgcgctaata                          400
  
```

<210> 21029
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21029

```

ggaggagtgt gcaagtgagg actcacncc tgtttaacac cttcttacgc naatatgctg   60
gccnatgtgc gggagtactc gcctgacacc catcatccgg tgcactcccc gcctacacgg  120
tagctcattt tctcccaagc cttgcatcat ctagtgtttc tcaaaaacga aaaccctca  180
atcatgctca cgatcaaagc ttgaggttcg caatgttaca cgaacaaact ctccggggcaa  240
agaactgacc tatgcataca cttgcccaca tccaagcaaa agccagcggt tcacttatga  300
cccagagcag tctctgttca ttcgtcaccg tggacgaccc acttttatgg aattctatac  360
tagactcatt tgacggtgga ctttacatac tccaaataat ctgcctgtcg                          410
  
```

<210> 21030
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 21030

```

tgtcttatgg tgatggagag agaaggggta aaagggataa aaagaataag aaagaacgaa   60
  
```

taaatctcaa tcatcaatta ataaaaatct gacgatgtaa aatgcacct caactctcct 120
 tatagctaga gtctacaaaa tttaatgcct ttaagatttt tgtgtgtgag tgaaaaaat 180
 aaatatttgt caagattaaa tcacaaaagt tatgtaagtt ttttaaaaaac tcaatcattc 240
 ttttaaggaa taatataaca ttaaattttg aatatatata tatatatata tatatatata 300
 tatatatata tatatatatc ctagatatac ttatctcact ctcatattaa aatagtcac 360
 ctaatatttg tgtatgtcat cctaataattt gtgtatgtca tgta 404

<210> 21031
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21031

tgtcaaccac gatgccagg tgctagtgt ccttactcat ctgcaagtta gagcttatat 60
 ggaccgattg gggttatcag ctcttggtac ggtgcagtat cctaccgcat agtggatgat 120
 gtgtccatga gattaccatc acggtggatg atcttgtctg ttgcacttac ctgtgacaag 180
 aaagcccatt tatcatgtcc ctctgctctt tgatagttag gcggtgaagg tttacatggc 240
 tagtaggcct atctcaccgt tatgttgatt taggctcgta tgtttgggct atcatgactt 300
 atctcatgca cttgatcgac antatgatac ttatatacaa gtcacgact cacattcatg 360
 tcacctacct ttagtatctc aacaacctgg atgcttgcca ctagtacgca tgggaagtag 420
 ctacactggc gtgcctttac aaccatct 448

<210> 21032
 <211> 354
 <212> DNA
 <213> Glycine max
 <400> 21032

ttatcttgta acaatttaag ggttatgtta gggtaaacag atcaatttaa ctcttttga 60
 atgtgtgtat catctaagtt ccataagtt gtttctataa tcgaaaagaa aatatggata 120
 aattgttttt atataacttg tcaggtgttt tcataagtta tcttagagaa ctaattaaaa 180
 taaccttgta acagctcatg gacatataat aagttatttc acaaattctc tctattatca 240

taagatatgc tcacatgagt cgttcaaaat aatatccaca ccctaaggtc gtaacagaga 300
aagaaaatta aaaaccatcc aagacataac agatgatatt cagacttaat atat 354

<210> 21033
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21033

tgcacattta cactaagact cactcaatca gatcactaaa tttatttgac atgttttttc 60
gtgaaaaaat gttaactatt aattattaat tttttgtttg tatgaaaatt gaaatccata 120
acctttctat tntgccttct tcactcacca ccaaaacaaa cattataacc ccaaagtatt 180
tgacatatta gataattttt tctactaaaa tattatgttc atattagaac attttgctcc 240
tatcgttttc acgaacactt cctttaagat tcctttactt accacatgca cganatgagt 300
gtcaagtcca ttcgattgta agttaaacgc atagctggag cacatgcttc gtcaacacat 360
ttcgatattn tttattgggg ataccactac attttctttt ttaanataga gctagtaaca 420
aaaaacaggt aaaatgtgtt t 441

<210> 21034
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21034

agcttctatc caaatggact taccttgaat taattccttt gatagccctt ttgagccttg 60
tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120
atatccttaa ggaatttttg agctttggaa ttgttttggg aataagtgtg gggggttttt 180
gtttcattgg acaacttggt ttgttgacta tgcttcatga tgtattnngg gtcatacttg 240
atgtacattg tatattgggt aaatggtgga catgctgaat gaaatgttgt ttctcaaagg 300
taaaaaaaaa aaaaaaaaaa tcaaaaaaaaa aaaaaaatcc aaaaaaaaaa gagagaaaag 360
caataaaagt gagtgaataa gatcttaaat ggcacaagaa tgat 404

<210> 21035

<211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21035

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 agtcttttga tgaagcaaca actcgaagac tttggagtaa accttgatca cattcctcta 120
 aaatgtgaca acacaagtgc taccaatcta acaaataacc cagtcaagca ttctaggact 180
 aaacacatat aaataaggca tcattttctt agagatcatg tgttaaaagg tggctgctgc 240
 attgagttca ttgatagtga gcatcaacta gaagaaattt tcactanatc ttctgctaga 300
 gataagtttt ttattagaaa tgaactatgc atggttagatg catctagcat aaaatgacat 360
 tctgttttga tagtgtgtga tgcacattgc tactcatatc natttgttt 409

<210> 21036
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21036

agcttctcgt tattagtga cagtgtcata ccctaatttc gtccggggac ctttgcttga 60
 taacatgcgg cctttctttg gtcctttgaa agtgcttgac acccatcatt aagcaatttg 120
 tgaaattcca agacatgccg aaaaaccaa aaaatattaa tgcacaatcc gtaagtttcc 180
 gtgacacacc gaaaattaaa tggaagcatc gttgcataat taagcgagat tccgtaaaca 240
 ttccgtaagt caaaaagggg atgattatgt aatccggaag gttccgtaac attacggaaa 300
 gaaaataagt atcgttacga aattcgtaag tttccgtaac ttacgaana aagaatcaca 360
 aananaaat cagagggggg tgtacttagt aaaaat 396

<210> 21037
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21037

nttgcaagct ggaatcattt atcctatctc tgatagccga tgggtgagtc ccgccagggt 60

ggttccgaag aagaccggcc tcacagtgat aaaaaacgag aaggaggagc taattccctac 120
 tcgggtgcat aacagttgga gagtctgcat tgattatagg aggctgaacc aggttaccaa 180
 aaaggaccat ttcccccctgc cattcattga ccagatgctt gaacgcctgg caggtaaatac 240
 ccactattgt ttccttgatg gtttttctgg ttatatgcaa attactattg ctccctgagga 300
 tcaggaaaag accacattca cctgccccctt cggcactttt gcctatagga ggatgccttt 360
 cggcctgtgc aatgccccctg gtaccttcca gcggtgcatg attagtattt tcagtgattn 420
 ttagaanatg catagagggtg tcatggatga tttcact 457

<210> 21038
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21038

agcttcttat ctaatgctca tcttggtggt gaagcttctt ctccaaggc ttattcccta 60
 atggatggcg catectctct cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
 aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
 gcaagcttcc taagggtgtc ctccctcagtt ttagacttgg cgatcatgtc gtctatgtag 240
 acttcgatct ctgggtgcat catgtcgtgg aacacagcca ccatagccca ttgatagggt 300
 gccccgacgt tcttgagccc aaaggacatc accttatagc agaaccttcc ncacaggggtg 360
 acgacacatg gtcttttcca tatcctctgg tgccatcttt atctg 405

<210> 21039
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21039

ctcaagcttg ctaacccatg gaagctccta atatctccca cactntntgg ggtgggcat 60
 tcttgatgg ccttgattnt ctcagggtcc acttggaacc catttctacc aactacaaaa 120
 cctaagaaaa ctatattatc tacacaaaag gtacacttct ctatatttgc atagaggggtg 180
 ttttctctaa ggactgaaag aacttgccctg agatgtccta agtgatcatc taggtcccta 240

ctgtacacta aaatatcatc aaaataaaca actacaattc tacctaggaa atcccttaag 300
 acatgatgca taagcctcat aaagggtgctt ggtgcattag tgagcccaaa aggcattcact 360
 agccattcat acaaaccaaa cttggtcttg aaagccggtt tccactcatc accnttttc 420
 atcctgattt ggtgataacc actnttaaga tcaatttntg aaaagata 468

<210> 21040
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21040

agctttgtgt aatcgattac actaatttgg taatcgatta ccagtgattg tttctgaata 60
 aatcaaaaga tgtaactctt caaatgggtt ttgacttttt caaattgggt ttaagttttt 120
 ctaaaagtca taactcttct aaatgggtct cttgaccaga catgaagagt ctataaaagc 180
 aaggctttga tttgcttctc aatatacttt tccaatcaat cttataaaat catttacaag 240
 ccttgaatct ctttgaactt cttcttcttc tttgtgccaa aagctttcca aagttatctg 300
 gttttctaaa tcttgaaaac ttgtgctatt cattcttttc atctcttctc cctttgccaa 360
 anagaattcg ccaaggacta accgcctgaa ttctttctgt gtctctcttc 410

<210> 21041
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21041

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 aaaataacag tttttgcttg gaggttaata gaagataggc taccaacca gatgaattta 120
 cataggagac atgtgcaact gcaggatctg cgatgtcctt tctgtaaaga agctgtagag 180
 gaggcattct atttggtctt ccattgcac ttcattccaac caatttggtg ggcattgatg 240
 tcttggtga actatcatac tgcctttcct cttgggccta aacaaaattt tctacagcat 300
 atcttcactg aggtaaaagg attaaagatt aagagatgga gatattggtg gatggcggtc 360
 acatgggcta tatggaaact cagaaacaga attctgtttt cgaatgcaga attngatgct 420

aacagattgt ttgatgaggg ctgtttct

448

<210> 21042
<211> 414
<212> DNA
<213> Glycine max

<400> 21042

agcttccctc tcatcacttg caaacaata gaccttaaac aagccatgca cccactatct 60
caaactcttg ctaaccaata tatgtttgtc gtagtcatca atgaagattg gttaaagagg 120
aatagcaaaa taatagagta tgatcgcgag aaagaaaaga gaatgaaaaa aactcattaa 180
taaaagcaga acaaggtgat aaaaaaata aaagaaattg gataagaata tttgagagga 240
aaggaagatc gtccgacaaa acaatacact tttgaaaata aaatagacaa tttatataaa 300
aaaaacacaa gtataaaatt ttcataagtt aaaaaataaa aataaaaata aagattcaaa 360
caaaagaatg aaaaatgaag aatattgaaa aagaatacga aatgaagggg aagc 414

<210> 21043
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21043

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attgtataat cctaccacta aaaagatcat tattagtcgt gatgttggtt tttatgaaga 120
aagattntgg gaaaataaca tagatgaaac aaatcaaatt cttgcaaact ttgatgaaga 180
gttgacagaca aggttgctag aagagcaaca aatttcagca atcacagttg aagatgaaag 240
acctcaacga gcaagaagaa ggcattgcgt gatgtctgat tataaggtaa cagaaattga 300
agatccgatt acttattttg ctttgttttc atattgtgac cctacaacct ttgaaagtgc 360
tgtcaaagaa gaanaacgga gaaaagcgat ggatgatgaa attgattcca ttaaaagaaa 420
tgatacttng ggattgtgtg atcttccaaa tggacataat at 462

<210> 21044
<211> 407
<212> DNA

<213> Glycine max

<400> 21044

agcttatgga aataatacat aagaaagata actaagagtc ggccagggga tcaaagcaac 60
gcctgatgaa gctcatatca ttttcaagcc tagtgatata agtatccatc ccataaaagc 120
gagtatccat cgcatacaaaa tgctcaccca caaatgctcg aagatcgtgg agctctgtga 180
ggatttcagt cagcagagaa gaagcattcc tttatgggtgg aggagatggg gtacgttcgt 240
taggaatagg cgggtgacaag tcttgtttgc aaatccactg accatcaaca tcctttcggt 300
aaccaaagga ggtaacaaca ccgacaccaa tggagaaaga ccttttaacc ttgacatatg 360
gttaatcatc caaaggaaca ttgaaatgat gaagaacaag agtaaca 407

<210> 21045

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21045

tccgtgaaca tcaactcttc tgactncatt ttgtaaatag tttaggctat ctaccacttt 60
cgagtatcga attaatagta tttattatct gttaaataga atgggtttttc aattccctgt 120
gctcaagtac ggggtataatt tgggggacta attccccttc ccattcaaca aaaaaaaaaa 180
gtgcgagtaa agaaataatg cgctatatgc atcccccttc accagagaaa aaaagggtac 240
aagaatgtca ttaataatac gctatagtct tgatgcaaag catcatanat ngagagtata 300
tttgagtga cgtcttgcaa ctttatngaa tgtgtaatga cgtgacttta tgtagaaaat 360
tatcttaaga cttanatctg tttctttttt ttgtaatgta naaaaaaatc aacaatga 418

<210> 21046

<211> 576

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21046

actgtctaac acttaaccaa ntanacactg atcatngaag cgttaagaga gatagagaag 60
gtnnnnnnnnn nnnnnaagag gatgaacgtg tggatacgct agctattacg cgcacctatn 120

naanacccca nggngganca caacnataac ntgctcgatg agggccggct ctattctact 180
 cgcgatgagag agaggggagca cagcaggctg aaaagcagaa ccatcttctt tgaaggggac 240
 taaaggtggc tccccagta atacaaggca gtccaaccac atgaccaaag aaccaacca 300
 gacgatgaac aatcgataca catgacagaa gatgcaacac atggacaagt gagctcacc 360
 acgttgacca tgcgcgctgt gagagacata gcgaattcaa taggaatctg acgaccaaga 420
 tacaacaaca tgaatccaac gctgatacta caaaaactgg aaaaggggtgc ccgaaacgac 480
 aggacaaagc cgcgagaaca tgaaactgga gacagaaaaa cacacaaacg tcgggtctta 540
 taacatgcag caagagagca caggagagat acggag 576

<210> 21047
 <211> 274
 <212> DNA
 <213> Glycine max

<400> 21047
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 gaactgagtt ctttaaaggt tgggctaaga atttatcctt gaaagaatgt agttctttct 120
 actttggat gagttatgct ccacatagaa acgccattt tctttactct ggcttttgta 180
 ctggcattgt taggattcaa tgcaagtatt atttctcat tctctcaatg agaggttgtc 240
 aaatttaatg ggtcggctga tctagaatca attc 274

<210> 21048
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21048

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 ctcatccact atcatctaga gcttggtttc tgaatgacaa gtgataaatg acagtcgaag 120
 caactttata aagcatgatt tgaatagaaa agtataaatg tataactaata tataatatta 180
 ttatagcgca ttaatatac taacttataa ccatttatat atctctttta taatatactc 240
 tcttctatct tcatctctaa catataatct aataaatcgt tctagaaaat ggttaatat 300
 taattatcgt tatatcatat ttaaattggt catcttcaat tcagaatata atgtatgaat 360

ttagaaatat ttagttaatta taataaagat ttaattatat aaaaacaaat atcgctctga 420
 agaagcttaa ttgcgcatcta taccctatt 449

<210> 21049
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21049

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 tatgggtctt tgggtttatg tgtaaggctt taattggaag acaagtattt gaaattgtga 120
 gatgttggtg tttcttgctt aattgacttg ctctgcgaga cgttggtgtg tggattttaa 180
 tcaaattact gtgagtttgt gctttctttt gtgctctcan gtagtttgga gtaaggcaca 240
 tgtgtgtgtg tctatatata tatatattaa tacttggtccg ggaatgtaat aacagggtcat 300
 aatcatagat gttgcaattc atactatgat attaaataaa tagacataca aaaccagggg 360
 ctaagggtgt ttcttttctc aagaagcttc agatttggtg aaagtta 407

<210> 21050
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21050

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 ctcaagtatg atcctgctaa gcccaaaaat ctctaatct caaaaataga ttaggactc 120
 tccattcaa gaacgacttc tatcttagag ggatctacaa ctatacccc ttgagatata 180
 acatacccta ggaaactaac tttctctaac caaaactcac actntgacaa gtagcataa 240
 agttgtcggg cctaagggt atgtagcaca atcctgaagt gttcttcatg ttctctctta 300
 gtcttgagat ataccaaaat atcatctatg aatactacca caaaactatc tangtaaggg 360
 tgaaagactn tattcatgaa gtatataaac acacctggag cattagccac accaaaaggc 420
 atgactagat actcatagt 439

<210> 21051
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21051

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 ttgcttcctt tctgaggttg agattgaagc ttggtgactt ttgcatctga caagagatgg 120
 aattgtcggg gtttgattca gtactgagcc ttgttacact gtcccttggt tcataaccac 180
 catttgcaaa tatagaatag attgaagatg gttcaatgga catggtagct gctgaagggtg 240
 ttaattctgc ccctgcagat gaagctgctt ttacatgttg tagatgttct tctcgtttct 300
 canatgcttc atcatcaacc aagtccacag atggaactgt taacttataa gaaacatgga 360
 tgtcaatggc aaagtatttg gtctcatttg ctagcttcca atctgag 407

<210> 21052
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21052

ntaagcatat atcaatccta tatatcctat ctctntaaat cttaacctaa cttataatat 60
 aaatggcctc cataaaacat atagctggaa aacaactcaa ggatgtaatg ttagagtggg 120
 gagtatttcc aaagagataa cttaatgatga tggctggaat gaccattagc ctgtaaaaaa 180
 tttattggca ggcaatcatg tatagcaagg ttaaaccaaa cagttagtcc ttgtagtcta 240
 ctagatttgt attttgggtcc ctatagttta ttggctttgt atgagggaga gccttggaac 300
 aatggtaaag ttactgcttt gtggcctaga ggtcacaggt ttaaaccag gaaacagcct 360
 ctccagtttc cacttggtggg tgtaaagctg tgcacatcta ccttccccan acctcactta 420
 gtgggagccc catgtacttg gtc 443

<210> 21053
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 21053

agtttgtttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgaagaa 60

cgtcgaagaa cgggttgaaac ctttgcgaga ttcctcacgg aaaacggttac ggaaacgttt 120

cggaagcgcc tcggcttaga ttttcttcac ggaaacaatt ttcccaagca aattcgaaag 180

agagagaagt gcctaagggg ctggaccocct tccttcttca tttcctcccc tatttatagc 240

agaatagggg aggtggttgc cgcccagctc gcccaggcga gctcagctcg cccaggcgag 300

catggttgct tcctccagaa gcaaccgcct tctggaggaa gcttctggag ggcccaagtg 360

ggcctgggtg ctatntgcac ccacattttt actaagtaca ccc 403

<210> 21054

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21054

tataagaaca aaattgcctc aatcatttct taatatgcat gtgaattang acgcatcagc 60

aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120

tgatgatgga tggctcanat tctcaciaag gtaaaatcat cactttcaaa ttgagctttc 180

aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240

tttattttca aaacaattac ccattttctg aacatttcct ataattcana gaaaaacatg 300

caaagtcgta cgtgcacaca atattgaccc aaaatattaa actaaaaatc tgacgaaact 360

aacaacatta acaaattaac acaactaaca aattaacaaa accaacataa ctagcataac 420

caaagaacac tccccncccc ccatacttaa acaaca 456

<210> 21055

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21055

agtcttacct tctggtcctc ctcatagttg gtgcatgaga aaacatgctc tatttttcac 60

tcccactcca cgtaggcctc cggatcattc tttcctttta atggagggaat gttgagttta 120

ataccatcaa ttccgttntg tctaggaaca ccatcattcc ctcttctcct cctttcttct 180
tcattatgat ctctattctc catttgatcc aacctctcat ggagcgcac atctcgttgt 240
ttcattaacc tctccaaatg ttgcatcana gcttgcatth ggaattgcga aagccccact 300
ccatcattag gattagtacc tgacatctca nacaacata tcanacgtaa caagacaatt 360
atagttgctg ttcgatacct caccactcaa gtgtatacac 400

<210> 21056
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21056

tctggtggga catcttgact tgctttccaa tctgacattc ttcacagatt ctgccttctt 60
ctattttcag attgggaatg cctctaacag cacctttgtc aataattttc ttcatgcctc 120
ttaagtgcag atgtocaaat ctttgatgcc atattttgac ttcattcttct ttggagaata 180
gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
tgctgccctt cattaggact tcactcttct cttttgtcac caagcattct gactttgtga 300
agttttacatt gaatccttca tcacacaact gactgatgct gatcaagttt gcagtcagtc 360
ccttcaccag cagtactttg ttcagactan gaagtccatc atggactagc tttcccatc 420
cagtgatc 428

<210> 21057
<211> 399
<212> DNA
<213> Glycine max

<400> 21057

agcttcttgc gtagccgctc ttggtgctca gaaaatcca aaaacaaatc cctcttatta 60
ctagctatth tgaattctth agttcctgaa tgtacaacct tcaaattgth gctcgttctc 120
ctctttctth tctgcaaaaa agaaaatcaa tatcaaagaa aacatggatg aaatcctaag 180
aaaatcaata tcaaagaaaa catggatgaa atcacaatta aaaagcacia ctaccaatct 240
ttcagagtcc tttggttaat ttgtcttgte tccttatgtg gtgggggtth gtthtaataat 300
attatactth tgccttccaa aaaaaactta tgactgatcc tcttttcatt aatcctatct 360

tgtatgttat tgtataaaag atcatgggtt ctccacctt

399

<210> 21058
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21058

tgtatttcag tatcttattg atcagttatg ccaaatgcct gtattggcct tacctgattn 60
tacaaagact tttctagtgg aggtggatgc ttcaggagtg ggggtcggag ctgttctcat 120
acaagatcac cattccatag cctttataag tagaagctta aatgttcagc aacaatccat 180
gtcaacctat aagaaagagt tactagctgt ggtgtttgtt gtacaaaagt agagacatta 240
cttattacct aagcagtttg taatcaaaac tgatcacaaa agtctcaagt atattcttga 300
ccagagactt tccacagctt tccaacaaaa atgggttgga aaacttatgg aatttgattt 360
cattattgaa tacaagtagg gaagtgagaa ccaagctgct gatgca 406

<210> 21059
<211> 401
<212> DNA
<213> Glycine max

<400> 21059

agcttctatt ttactgtctc cgtgtgaggg acgtttctct ttctgtggac attatttcac 60
aaatttcaat ggtggagatg tgcaaaaatg ggttccaaag gtggtatcga aatttcacga 120
caatccaaca gttgacgagt ctgaaatcgt agttttacga agacagggtt tgggtctctg 180
tggaaaaaga gaaagctacg atacgaatga catttctctc acctcagata atatttcgca 240
aattccaaca atgagaatgt tcgaaaatga gttctgaaag gtgctcaaatt ttcattgatga 300
tccaacggtt aacgagttcg ggatcggttat ttactgaga caggtttgag tgtatgtggg 360
aaaaagagag gatttaagag aagaagaagg aaaacaaatt g 401

<210> 21060
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 21060

tctagctccc aacaaaaggg gtttagtctc tcataaccat gagaggcttt acttgtcatg 60
 gatgactaac aacaagaaaa aaggagaatg tcgaaagcga gaggggtttct cctaagggat 120
 agaccccggtg tgtggggtgt gagacggtgt gtattttcct tctgttttct ctctcctcct 180
 tatataggta gcttacttac ttcgcactta gtgcaggcat tcacgctaaa cgcgcctttg 240
 ggctttttcg tgggccttat gcgtgcttag catgtaacgc gctaagcctg gagtgtaggt 300
 taagcctaga gtgagtgcta agcctccaac gtgcacttag ccaaaattga cacttgaaat 360
 aaagatgtca atttttcctt tcagaatttt ttcttcaga ttntacatca aactttctca 420
 tttgtntaa ttaattcaat ttaagggat ggaggtat 458

<210> 21061
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 21061
 agcttattta tatcgaggcg ctcgaaattg aacaacggaa gctcttgaga aattcaaattg 60
 gtcataactt ttaactcgga tgtccaattc atgcgcatca catatagaga cgctgaaaaa 120
 tgaacaacgg aagctctcca gaagttaaaa tggtcataag ttttcacact gatgtccgat 180
 tcaggcttat attatatcga gacgctcaaa atttaacatc gaaagctctc gagaaattca 240
 aatggtcata acttttcact cggatgtccg attgcagcgc attacatata cagactctcg 300
 aaaatgaaca acggaagctc ccgagaaact caaatggtca taacttttta cactgatgtc 360
 cgattcaggc ctataatata tcgagagcgc tcaaataata caacggaagc tcttga 416

<210> 21062
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21062

agcttatgcg catatttccc tacgaacgtt cacttgcaca agacatccta ttaactttga 60
 aaaatgcacc catatacaat caaggtagct tcattaccta gattatttac atgtacttcc 120

aagggtgtatt tgttattttac atcacacacg cctccttggc taaattttaca tacatgcata 180
ctcaaagcat ttcggggtac caaaaattgc acatgcgctc atcttggtat ttctaatacc 240
tatacatata aaaactttcat gatgaatctt gactacctac gcaataaggt gctacatttc 300
atgctttttt ttttcaagtt tttgctacct aaagccacat gaaaattcaa gcatattttc 360
ctttgctgac taaaattgta ttcaaattag aaggtatata tttttttgta atatgttttc 420
ttcacataac atgcaacaca tttatatata tnttttgtga gacat 465

<210> 21063
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21063

agcttgtatg attatggggg acccatcata tgtggtacta ggtggcgatc aggcgatggg 60
gcaagtcgac tttccacatc caciaatcac acataaatcc accatcccca gttgcccacc 120
ttcaattgag ctcacgtact cccatgtagc ccttatcctc gttcctctca acaccggggtc 180
cccatcaatc cctccaagct tccacaacat ccaaacatca tgaactatca aaaccaagca 240
aaaacagggc agaggtagaa atctctgccc aaaacataaa ccaataccac agtttttctt 300
actcaaatac cccagtaaca ttcccttcgt tccaattcgt tcaccgttgg atcgactcga 360
aaattttact ggaggtccct agtacataag tctacattnt gaccgctggg atctg 415

<210> 21064
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21064

ntgaaganat aggatacgaa tctacatgc atccattcac actttctata aaaagcatta 60
tgtatattct tggaaagttg gaaacactct caaaacacct tgtatatgct aagagaaaag 120
actaagagct tagctttcat atttgtttgt aagacaatta agagttagtc agtgagaaaa 180
caaacttcaa atcttttgat ttatttttag ctagcagtga cttggcagga caaagaatat 240
tggtttgttt caagcttggt aaaaatggaa gaaaagaaaa ccttcacgga tttgctcacg 300

gaaatgtcga anaacttacc cgttgaagaa cgaagaacga acgaagaacg aatgaagaac 360
 ggtgaagaac gacgaanaac attcacggat ttgctcacgg aaatgtctcg gaagcgttat 420
 ggaagcacct cggcttggga tttcttcacg gaaacaattt 460

<210> 21065
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21065

agcttgaagg catgtaaccc accatcttgt catagtagaa cactagtaat gtgtccacta 60
 tcattgttat catttccttc tccatcggtg ggggtgctac ttaagctgcc agatccctcc 120
 acccttggac gtattctttg aaagattcat gctccctttt gcacatgttc tactactcca 180
 ttctatccgg agccatatca gaattgtact aatactgcct aatgaaggca accattaggt 240
 ctttccaaga acggacctga gaaggttcca tattattata ccaggggatg gctaccccag 300
 taagactttc ctggaagaaa tgcacaaaca atttttcgtc tttcgcgtat gccccattt 360
 tcctacagta catgttcagg tgattcttgn ggtaagtagt tcccttgtag tta 413

<210> 21066
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21066

tccatcagtt ntgatgatgc caaagctcan agagttgttt tatgattaaa gaatcaagca 60
 ttcaagattc cactcaaaga ttcaagaatc aaataaagaa atcaagaagc atcaagccaa 120
 gtcaaaatag gtagtaaaaa gtattttttc aaaaaacatc aaatagcaca ctttttgttt 180
 gaaaagtgat tttctgaaat cttctaagtt accagagttt ttactctctg gtaatcgatt 240
 accattttat agtaatcgat taccagtaac caggatgggt ttcaaactgg tttcaatgct 300
 ttgtaacggt ccaaaatgat tttcaaatag tgtaattgat tacactatat taataatcga 360
 ttacaagtga atctgaacgt tggaattcaa atccaattgt gaagagtcac agctnttcat 420
 aaaatacatt gtgtaatcga ttacactatt atggtaatc 459

<210> 21067
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 21067

agcttctggt gggacatctt gactagcttt ccaatctgac attcaccaca aattctgcct 60
 tcttctatct tcagataggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcacg ttctttggag 180
 gatagacatg tggaggagta actggtttct tgagggtgcc ataggtagca gatgtgcttt 240
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
 gtgaagttaa cattgaatcc ttcacacac agctgactga tgctgatcaa gtttgagtc 360
 agtccttcca ccagcagtag ttgttcaga ctaggaagtc catcatgagc tagct 415

<210> 21068
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 21068

tgtaaagaa cttaaaaaaa atcaagaaca agcttggtcg ctcatgttc gcgtgtatga 60
 cttcactcc acaagggttg aagtagagga gaccttcaat cctattacgc aacgtggcgg 120
 acaaaaatgg gcagttaact tgaatggcca ttattgtcaa tgcggaaggt attctgcgct 180
 tcaactatcca tggtcacata ttattgcagc ttgtggttac gtgagcctga actactacca 240
 atatatagat gttgtttata caaatgagca catcttaaaa gtttactccc cacaatggtg 300
 gcctcttgag aatgaagcgg ctattcctcc ttctaagac gcattggacac ttatccctga 360
 cccaactaca attcgtgcg 379

<210> 21069
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 21069

atcttatctg ataaatgtat ttgtatgcat aattaatttc atgcaatata tttatgacta 60

tatattctaa aatataaatt gcatttggtaa tatattaaaa tgtagaatgt ttgtttttaca 120
 tgatcatggaa attattttata actaaattta tactaaattt ttcggcaagt ttttctgaat 180
 gcatatatac taacattgtc aatcaaaaat taatctttca tcttggttaa aagtgttaata 240
 ttaaaaaatat atttatagct aaaaaataac tttgaaagtt tggtgtgtgc ttacaaacaa 300
 tgctcaaaag aaataaaaac gagagaatga aaataaaatc gaaaatagtg aagggggaat 360
 attcatttga tctggaaaat attactacta ctatta 396

<210> 21070
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21070

tgatagtgtg tttgatttgt ggtgtggtga aagagaaata attattnttt cacgttaaaa 60
 aacacaactc tttgtagctt caagatTTTT agggtgaaaa tttgattatt tttttttcag 120
 tgttacggtg aaatgtacta aatagttttg taaatagtaa atacacatca acatcacgtg 180
 gctgatcacg tgacctctct gaatttctct tccctctttc ctgtttttca tcaaattcca 240
 aggctaagac agtacaaaat gtagcagtta cagcacgtga tcccaaaggc atcaaattcca 300
 aattttcaga tatttaccat ttcactttca gattgtacta aaaagaaaga ataaataaat 360
 gctgatttca cttgaccctc attggcttga aggcctctta gtaatgccac gggcactaca 420
 cagaatcctt caccacaaca atg 443

<210> 21071
 <211> 414
 <212> DNA
 <213> Glycine max
 <400> 21071

agcttgtatg attatggggg acccatcaca tgtggtacta ggtggcggtc gggcgatggg 60
 gcacaacaag ttttcacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120
 ctccaactga gtcacgtac tcccacgtag cccatattct cgtttctctc aacaccgggt 180
 ccccatcaat cctccaagc ttccacaaca tccaagcaaa acaacattca tacaacacaa 240
 gctatcacag ccaagcaaaa cagagcagag gcagaaaact ctgctcaaca catcaaccaa 300

aatcacagct tttctcacgt aaagaccaca gtaacaattc cttcgatcca attcgттаac 360
 cgttggatcg actccaaaat tttactggaa gtctatagtg cataagctta catt 414

<210> 21072
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21072

tcatgatgat gaatcaagtt gattcaagta gttntgatga tttcaaagat gatgacaaaa 60
 agcccaagag aatgatttca agattgagtt aacaagtttc aagaatcaag agaagtttga 120
 tttcaagaag aaaagatgaa ttcaagattc aagtgaagaa atcaagaaga cttcacaagg 180
 ggagtattga caagatTTTT caaaaaaca acatagcaca gttttgtttt tcaaaagatt 240
 ttttctcaaa attttctaag ttaccagagt ttttactctt tggtaatcaa ttaccagttt 300
 cttgtaatcg attactagtg gcaaagtttg atttcaaaag cttttaactg aatttgcaac 360
 gttccaattg ttttttaaат ggtgtaatca attacaatat attggtaatc gattaccagt 420
 gtatctgaac gttgaaattc 440

<210> 21073
 <211> 404
 <212> DNA
 <213> Glycine max
 <400> 21073

agcttcattc atgtatccac gtagtagtcg tgcaggtagc gtggcgctctt cctggtgcgt 60
 actggcctcg aggtggttac tggtagtcgac ggtgaagacg gtgcctgtga ggtgccggtg 120
 gtgctgtcgg tggtgctaac agtttggaaт ttcaacagtg ttgccggaac aaattccgca 180
 gctttactcg cagatgggag tatatgttag aggaggaaag atgcacaaat ggaaaattct 240
 gttttggtac gtgacgttat agtgcatTTT gaatctgagg aacaaaattg ctttttagaga 300
 tgctgatgta gagataggtc atcttttaca ccgcatgata tctatatctt gacaatgcgt 360
 tttgtatagg aatgggtcta aaccatgata ttctctctct gatt 404

<210> 21074

<211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21074

tctatagaag gttcgttcct aattttctctt tctttggatc ttctctcaat gagctggtga 60
 agaagaatgt ggcatttacc tggggtgaaa aacaagagca agcctttgct tttctcaaag 120
 aaaagcttac taaggcacct gttctagctt ttcttgactt ttctaaaact tttgagctag 180
 aatgtgatgc ctctggagtg ggagttggag ttgtattggt acaaggtggg caccctattg 240
 cttattttag tgaaaaactt catagtgccca cccttaacta cccacactat gataaagagc 300
 tttatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc aaggaattng 360
 tcattcatag tgatcatcaa tcacttaagt acattagagg gcaaagcaag ttaaacaaga 420
 agcatgcaaa atgg 434

<210> 21075
 <211> 380
 <212> DNA
 <213> Glycine max
 <400> 21075

agcttattca tgtccatggt gaactgatga tgatgatcct ctaaccattg tcctccattg 60
 ctctcaaagg tctcctaaaa aatctcatgt aattctctaa tgtatgggtt gcggatttgt 120
 taagcattta agattctgcc atttagaaaa agtaatcata tgtgggtgcct gttctattga 180
 tattttatctt ccataccata atacattaag acttgcgtgg tctagtgccca taagatgcta 240
 tgtatacatc ttttcaattc cttttccaat ttgtgttata ttgtgagatt cgagtactta 300
 atggtgatgc tgaatattca gctttaactt catacgaaaa ttatcatctg cgtctttcta 360
 caaccgtctt acaatcctaa 380

<210> 21076
 <211> 300
 <212> DNA
 <213> Glycine max
 <400> 21076

tcaaacttgc aacaaaggag ttgagcatgt ataaagattc tttcttcaac ttttagaggt 60

gactttgagc gtctgtttat ggaggagtcc caatcaattt ctgattattt ttctcgagta 120
 ttggcccgta tcaattaact taaaagaaat ggtgaagacg tttatgaagt gaaggtcatg 180
 gaaaaaatac ttccaacttt acatccaagt tttgacttca ttgttaccac cattgatgaa 240
 aacaaggatg taaagaccat gactatcgag caacttatgg gttccttaca agcatacgaa 300

<210> 21077
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 21077

agcttttcat ataactttac ctctgctgta ggctacttat ttgggggaaa aaatgataaa 60
 tttgaagttt tgtatgtggt tgtgtatgga atttgtaatt tgggaatttg tagtctttta 120
 ttgtgtgttt ggttttagta ggattttcta ggggtcatgtt caataccaat taatttttca 180
 catgtttagt tccatgttga gaaattgatt gagcccagaa ttgatgagtt taagcaactg 240
 taggtagttt tttttgctgt ggttcaagaa ttttatattg agttttacta ctaatatctt 300
 ttataataaa aacatccaaa cataacttca aaatcatttt tccaacgctc atccaaaatt 360
 cctaattttc ttactgactc ttaaggaatg agaatgaagt ttatgatgat t 411

<210> 21078
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21078

tcaagaaaaa gatggcctca gcaaactcct tatttccaga ttggaattct atcaatagac 60
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggcaataga tctaaatatc tgggaagcca tagaaatagg gccttatata cccaccacag 180
 tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaaccta 240
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctanaa gccaaaaaca 300
 taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgcta 360
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagatcta 420

nngataatgc actaactcat gagtatgaat tat 453

<210> 21079
<211> 358
<212> DNA
<213> Glycine max

<400> 21079

agcttcattg cctaacaagc caacttacaa cagctagccc caagagactc agcataagga 60
tgcacagacc aaagttgcgt atgtaaaaaa attgtatgac caagtgaagg tgcaaattgc 120
aaagaagaat gaaagctatg ccaagcaagc ccaaaagaaa aggaaggaag tgggtacttga 180
acccggtgat gatcttggac atttgaagac aaatgttttc caagaaggag ggaatgatga 240
gaatcatgaa acaggccaaa tacagtctaa aggcccaagt ggagaacgac gaacgcccaa 300
gtggagaatg acaaagcccc cgagtggaga atgatgaatg cccacgtgga gaatgatg 358

<210> 21080
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21080

tcattgccta acaagccaac ttacaacagc ttgcccacag atactcaaca taaggatgca 60
cagggtcaaag ttgagtatga gaaaagattg tatgaccaag tgaaggtgca aattgcaaag 120
aagaatgana gctatgccaa gcaagccaac aagaaaagga aggaagtggg acttgaaccc 180
ggtgatgatc ctggacattt gaggacaaat gttttccaag aaggagggaa tgatgagaat 240
catgaaactg gccaaatata ggctaaaggc ccaagtggag aaggacgaag gcctgagtgg 300
agaaggacaa agaccctgag tggagaagga tgatagccca agtgaggaga gatgaaggct 360
caagtgtaga tggatg 376

<210> 21081
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21081

agcttgtaa tactttntac cttatgtttg gctctaattg agacatggaa gtacgcatta 60
 ttttcgtccc ccaatttgag ccagtcaagt tttgatctct gttgtagaat ttcctcatca 120
 atctcgttcc acctaatcac agtttttgta cacatattca ctttatcaat tttctcttta 180
 ttcacctgt catttacaag cgagtcttga gcttcagcaa gatcttcccg agctttggcc 240
 agctggagtt tcgtatgagc aaattgtttt gacaaagtac ctaaaaattt tcttaattct 300
 ttcaatttct tccacatcgc taccatagga ctacatcaa cagggtctatt ccaactctat 360
 gcgacagcgt catcaaaacc tggcagcttg gtcacacaat tgagaa 406

<210> 21082
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21082

tgtccaatgt actcttgtgc atgacatcaa gcgacgagcc tttgtcgata agcatnttgg 60
 ccacgatgtg gtccaaacac ttgacggata catgtaaggc cctattatgt ccccgaccct 120
 cgacgggtat ctctcattg gcgaacgtga ggtaattgtt ggcagtgata atgttgatga 180
 ttctccaaa gccttcacac aagatgtctt gggctacatg ggcttcattc aagattttga 240
 ccaaaagcgc ccgatgaggc tcagaattca tgggtagttc caacagggag accctagttg 300
 gggttttatt gagctgttca attaccttga actcgctntg ctggatgatc cgaaagaact 360
 catttgcttc ttcaacggat attntctttt tgttgaagtc ttctctccc tttgcaaaacc 420
 tcccagtcgg gatc 434

<210> 21083
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21083

agcttatgtt aatttggcat ggaaggtaca aggctggcgg ctttaaggttc aagcaaccac 60
 agtaagggtt ttaggcccac aaaaaaaaaag gtccaaattt ttttttagtac taatatatct 120
 caaaaaaat ttattgtaaa attatatttg aaaataaatt ttaattaaaa tattataagt 180

atctgttact ctttttattg atacgcaagt aacaattaat gagcaacaac tcttcatcaa 240
 tatcatagtt ttgttcaaaa aaaagaaatt taacagttaa tagttaaaga aatccaaaag 300
 tttttctttc atttctattc tctttattgg ctttctattc aattntaatt cattcttctt 360
 ttctcaatgt ctttcatact tctttgtctt cacatgttga cctccttaat tatat 415

<210> 21084
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21084

tgcataagct attcatataa ggtatcttac agaacttgta taaataagtt attaacatct 60
 tatatatgga ttagttataa cataagtttg taagttctcg ctaacacttt cacaaaaact 120
 taacatatga tcttagtcat aaaatattgt taactcattg acaagtgtac cgatttgtct 180
 caagtagtaa agtactcaga agtctgagta tcgaatccac aatgactttg tttgtactta 240
 gattgatgca aactcaattt acaagtaaga gataaagaat ttaaaataaa agataaagaa 300
 agatagaaga taagatacat attttaaaga aaagataaga gatttaaaga taaaaaatta 360
 gaagatagaa nagataaaaa aatttaaatt aaaagatgat aaagataaaa aagtataaga 420
 taaaatagat aagataagta aaagataaag ataatga 457

<210> 21085
 <211> 369
 <212> DNA
 <213> Glycine max
 <400> 21085

agcttatctt tatatttaaa aaacattgat agaatataca cagtacatta ttaatttgaa 60
 taaatgacgc atacatgaca ttgattgaca taatacatat tgtacgagga tctaaagaaa 120
 ttgactaaag tggcgtaacg cagttgcagt cacaagtagt tgattatctt tatattcgaa 180
 tgggcctgac cctgacatgc acgccacatg catcattagt tcataacatt tgtttgcaa 240
 ctattaatca cagtattgtg gccaggacca tgcatagtca cacatcagca tatatctcat 300
 cttcgtcaac ccagaactgg attcctcgac ttacctttta aaataatctg catcatcgat 360
 ttatatattt 369

<210> 21086
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21086

ctcaagctgg ttgganaagg attaataattc attaacctga aaaaagtctt ttccttatta 60
 taagtgtttt ctccaactcc taatgatcaa gaaagagacc ggaagagtag tcaaataagt 120
 aaaatcttat tttttttctc tttcaagaag ttaaaacgca ccagaaaaaa gtctcactat 180
 aaaaaaatat acatattggg tatctattat ttttgagaat cacatatttc aagatcttac 240
 taatttccta taattgttaa tcttcaaaac ccttaaaacc cttcaagaca tgtataagag 300
 gtgagtctct gcaccacatg aatcgtgtaa atctatgccc acatcaattt aaatataaat 360
 atttcaattg caatgcatgc cgaacagcaa tatcacctaa caaacacgtc tgatccacag 420
 ataaagatac taggggtgcc taattctcta catttcaatg acc 463

<210> 21087
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 21087

agcttgccca gagaatgagt ccacggagga aatgcttacc acctcaaaag actggaaagc 60
 ggtttctaata gactcctctg cggttccac ataaggcata gaggatgggc agctcaccaa 120
 gatgtcttct tcgcctgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180
 gtggagtgtg gaggaacaa cccccactga gtggatccac gggcgcccca acagacagct 240
 gtaggggggg ttaatatcca ttatttgga ggtgacttga caggtgtgag ggcttatctg 300
 tactgggaga tcgatctctc ccctaacctc tcggcgggtg ccgtcgaagg cacgaaccac 360
 catagaactc ggctttaagt gggaagcatt gaatggtaat ttct 404

<210> 21088
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21088

cgattcaatc tatgtaccgc tagtgggtcca cattgtgttt cgtgcatttt tattctcggt 60
 ttgtttactt tntatacccc ctcttgacgt gcttgagcca ttttacttaa gtcattttctc 120
 gcttaactta aaaataaaat aaatttccac cgaacttttg aattgtatta tccattaact 180
 tcggttaaaa taaattccga ccgttcgggc gtgccgtaac cacgttgga atcaaaaaga 240
 ggtaaaaaat aatataataa tcaaaaagac atcttttagta aaataaagcg aaaaatcaat 300
 cgggcgttnt ctctttggga tttctcattc ttaatcgaat tgattaataa ctaaagtga 360
 actaaaggct aaaatcaatt cgcctagtca agctcgtcca taaaaatagg gctttgaagt 420
 ttgtcatttc attntctcac taagtaaaat gga 454

<210> 21089
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 21089
 agctttgcct ttatggcttg tacctcatca ctttcttcgc aagctttaac ctcatcgtct 60
 ctcacagtct ttagatttgg gagccaatcc agtccttggt ttcggactct cagccactta 120
 tgatagccgc cgatgatccc attactgctt ccctaagct ctctgtcctt tcttcaagct 180
 gcatcccatg ccttgccaac tccttggagt accctcgcgt tgtgggtcact gaaacctcgt 240
 gcgatgaaag gcgtgatgct ttctgtctaat ggcgctcctc tcattgggta gccaaagctgt 300
 cttatgggtga gaacgggatt ataattaata caacccttg ttcccatcaa gggaacattt 360
 ggacatcctt cgcattgaaga tagaatcttg attcttcctt ccttctagcg aggg 414

<210> 21090
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21090

actcaagctt catgattgaa tcaagattga ttcatgatga tgaatcaaga ttgattcaag 60
 gttttntgat gataacaaag atgatgacaa aaagcccaag agaatgactt ccagattgag 120

tcaagaacaa ttcaagaatc aagaatcaag tttcaagttt caagaatcaa gaatcaagaa 180
ccaagaataa tcaagatcaa gattcaagac tcaagattca agaatcaaga aaagactcaa 240
tcaagataag tactaaatth tttttcaaaa cattgagtag cacatgaagt tttcacaaaa 300
gcttttacca aagagttttt actctctggt aatcgattgc cagtttactg taatcaatta 360
ccagtagcaa agtttgthttt caaaagcttt caaactgaat ntacaacatt ccaattaatt 420
tcaaaatggt ctaatcgatt acaagattnt ggtaatcgat taccagt 467

<210> 21091
<211> 407
<212> DNA
<213> Glycine max

<400> 21091
agcttttatt tagtattcaa ttaatctatc ttgcatcatg tcagcccact ttggacttaa 60
agtgatacat tcagttacga ctctatttct aagttataaa ttataccaca gtccacataa 120
ttcttagtta agaaatacga atattgaatc atttgtgtca ataactttta ataaatcata 180
catttcaatg cagacctaga ttgcttttac aattcaagta tttcaagtaa cattgttcga 240
aaagtggtht acggcctcaa ttacgcttgt aacttcacaa tattgtggct ttttcagtca 300
aaattgtgac ttttagtgth tctggcgcga agttaaacc ttatttgthg ctaggthtaag 360
ttctatggat ctgactagca ttactttaat gacattgac atgcatg 407

<210> 21092
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21092
tactcaagct tatgccacgg aaatgtaatt atganatcga gatgcccgt tttcaccatn 60
ctctagttaa ccatgcatgt aagtaccatg ttcaattatt ttgttttgth gctgtgaaac 120
gggtttatga tccaacatg gttggctcat ggtaccgaat atatgcaacc aagaatgcat 180
catgaatttt catgcttccc tttttttgt tttcgthttg tagaggaaaa tgcagtgctt 240
atgcatgaga aaacatgaat acaaaacgta tgcagthttg agaacaacaa gtatgttgaa 300
cgcatatgca tgatgatgct atgactcatg caaaatgcga ggcttgaata tgataacgga 360

caaatg

366

<210> 21093
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21093

ttcaaccaat gagattgttc gaggcctgat ctttctccta atcatgattg ctacacccgg 60
aaccaatctc gaaacaaagc ttaacctttg aacgccaggc gaagcaacct tgatcgaaag 120
acaaatatga aacgtcctcg aatgactgag aaccgacccc gcgtgtatcg tccccagtag 180
cataagtcta aaacacttga caccgacagt tagaaaaaca ccaacacaaa tgtcacaact 240
ttacgaactt gctcgcgttg aaaacccta caaccaagag atcctaatat taacctatca 300
ggccccaacc ccttngattc aacacaacat gccattgaag cacgaattga acaataata 360
gtgaataacc actggtatta tctagcactc cttacaaaca tgcg 404

<210> 21094
<211> 424
<212> DNA
<213> Glycine max

<400> 21094

tggatgatca aatagtctga ccattggtgt tttaccatta tttgttacac tcaacattag 60
ttaatagtta gtctatattg cttagaatgg atccatccaa tatggcaaga ggtgtgtacg 120
gtgaaatgct ctgacatttc caaaatgaag acattggagt ctctctcata caaagcacat 180
tgttaaattt tcaaactcta aagtagatgt tctcgaccag aacatcttgg ggtatgcttt 240
caggagattt catcatatat agcacacatc tctcatctat tgcccttaaa gctaaagaat 300
caccagatga ttttaataat gaaagtgggt aaattgatga actttccatc ataaccagaa 360
gcttacacaa gatgttaggc aaaagggaaa tcactacacc agtaatgcat tcaagtatcg 420
cact 424

<210> 21095
<211> 392
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21095

agcttatagc cttttcaaac gacaataact ttttactcgg atgtctgatt gagactcgta 60
atataacgag atgctcgaag ttgaatgttt aagctttgag ccaattcaaa cgacaataac 120
tttttactcg gatggttgat tgagtcctgt catatatcga gacactcgaa attgaatggt 180
gaagctctga gccaatcaa acgacaataa ctttttactc ggatgtgtga ttgagtcccg 240
tcatatatcg agacgctcaa aattgaatgt tgaagctctg agccaattca tacgacaata 300
actntttact cggatgtctg attgagtcct gtaatataac gagacgctcg aaattgaatg 360
ttgaacctct gagcacattc aaacgataat at 392

<210> 21096

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21096

taaacattca acttcgagcg tctcgatata ttacgagtct cattcaaaca tttgagaaaa 60
aagttattgt cgtttgaatt tgctcagagg ttcaacattc aattttgagc gtctcgatat 120
atgacgggac tcaatcagac atccgagtag aaagttattg tcgtttgaat tagctcagag 180
cttcaacatt caatttcgag cgtctcgata tgtgacggga ctgaatcaga catccgagta 240
caaagttatt gtcgtttgaa tttgctcaga ggttcaacat tcaatttcga gcgtctcggt 300
atatcacggg actcaatcag acatccgagt ataaagttat tgcgtttga atttcctcag 360
agcttcaaca ttcaatnttg agcgtctcga tatatgacgg gactcaatct tacatccgag 420
t 421

<210> 21097

<211> 410

<212> DNA

<213> Glycine max

<400> 21097

atctttaaca tagaaaccta gttagattag tgctttgaca ggtttgataa caagaacata 60

tttgtgggtt tgacaagaac tatatacagc tcatgactat tctccaaccg agcaccactt 120
 ggaaggggtt tacacccaat gagagtcgag gttgtgttga ttgccaagct tcaacataga 180
 aacctagtta gatttttggg ttactgtgtg gaaggagaag aaaaaatgct agtatatgaa 240
 tatatgccaa acaaaaagctt ggatgctacc attatttttt gtaagactat ttattgcatt 300
 tgaaatattt tgtttacgtg cttttttttg tacactcaaa attctatttt gaagtagact 360
 aatgtaatgt atcatgcccc taatgaacta caagactgaa agttgtgtgt 410

<210> 21098
 <211> 441
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21098

tgtctcagcg tttatgcgag acggagacca tcatgctagc tatcatcgcc aagtaccaag 60
 aagagttagg tctagccacg gccacgagc atagaattgc ggacgagtat gctcaagtat 120
 acgcggaaaa agaggctaga agaagagtga tcgactcttt acaccaagag gcaaccgtgt 180
 ggatggatcg gtttgcctctt accttgaacg ggagtcaaga acttccccgc ttgttagcca 240
 aggccaaaggc gatggcagac acctactcca cccccgaaga gattcatggg cttctcggct 300
 attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag ggaacttgta 360
 tgggtctctca gaccttgact agatacgact tcctttttga aataaaatga gttgggtccca 420
 tgtnntctac tccaaaaact t 441

<210> 21099
 <211> 405
 <212> DNA
 <213> Glycine max

 <400> 21099

agctttattg tctaacaagc caacttacia cagcaagccc caagagactc agcataagga 60
 tgcacaggtc aaagttgagt atgtgacaag attgtatgac caagtgaagg tgcaaattgc 120
 aaagaagaat gaaagttata ctaagcaagc caacaagaaa aggaaggaag tggtagcttga 180
 acctggatgat aatcttggac atttgaggac aaatgttttc caagaaggag ggaatgatga 240
 gaatcatgaa actggccaaa tacaggctaa aggcccaagt ggagaatgac gaaagcctaa 300

gtggagaagg acaaagcccc cgagtggaga atgatgaagg cccaagtgga gaaggatgaa 360
 tgcccagagg cagagacact atcaagacaa ttaattgttg ctaaa 405

<210> 21100
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21100

nttcgattca ttctatgtac ccgtggtggt ccacattgtg ttttgtgtat ttttattctc 60
 gnttcattta cttttttatac ccccttttga cgtgcttaag ccatttttatt tatgtcattt 120
 ctcgcttaac ctaaaaataa aataaatttc caccgatcgt ttgaattgta ttatccgtta 180
 acttcggtta aaatgaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240
 agaggtaaaa taataatata ataatcaaaa aatgtctttt agtaaaataa agcggaaaat 300
 caatcggacg ttttctcttt gggatttctc attcttaatt gaatggacta ataactaaag 360
 tgaaattaag gctacaatca actcgcctag tcaagctcgt ccataaaaaat aagtttttga 420
 agtttatcat ttcaatntct cactaag 447

<210> 21101
 <211> 412
 <212> DNA
 <213> Glycine max
 <400> 21101

atctttgaaa tggaggattg gggaaatttt ctccatcgaa tccttaagga ggattctaag 60
 gattccgctc cgattaaaaat gttcctcttg gtgtgggggt ttggtggcaa gcaacggcag 120
 ctcgtggcgg ccaccggtgg tcatgggtgg tggagaaaga ggtgttaggg tttgggtggt 180
 gttttggaga ggaagagaga gtggaaatcg tgtttttcac actggagAAC aaatttataa 240
 tctacagatc tcgcttagag agctcgtctc gctaagcggg agtcacttt tcgtgcttag 300
 cacgacaatt cgagcttagt gcaactccct ctacactaag tctcgttag ctggccaatt 360
 ctcgctcagc gtaattccct ctcgggttgg aattatactt agcgcgcccc tg 412

<210> 21102

<211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21102

tttgtttgga attcatntc aattacctct tagttctgaa cgcataataa taatatgtac 60
 caaaagcata caaagcatga taatatgttg gacagagctc ttcataatct tgcttggtgt 120
 aaattaatga aaagttggtg cggttggtta agtggttatt aactagattt gaaattattt 180
 gattntatat atganattga tttttattan aaatgaaatt aaaataaagt gtcattgtta 240
 taaatattca ttntaaagta agtttatatt acaacttaat atgattcttt aacttanaat 300
 gaaaatttta tttagagaat aaaatatgga gttatagtca tcgattaana gttataaatt 360
 taaattaatt catatattag agagtgtatt gaattgtatc aatattggtc agcggctgan 420
 aatgaaaaca 430

<210> 21103
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 21103

agcttggtgt gagaaagtat ggaagagtca gtcttcctat tttgtttgc tgaccacaga 60
 gtggtacctg gagatatgtc gcgggggtca tgagaccttg gggacgtcaa gtgggggtgt 120
 attgcccaaa accaagcttg accaatcccg acccaacccc ggcatagtca gtcagtgaga 180
 acctttgatg tacctaaaca tgcaagctcc tggcagtcaa ctaataaaag aacaaagtcc 240
 acaaagcaac gaggcttggtg tggcggctgg ccaactacga atcttgagtg gtatctggaa 300
 attggcctct ggtaatcgat taccaacggt gtgtaatcga 340

<210> 21104
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21104

tgagaaatat agtgaaagtt gaatcgaatt atagagtttt catacatgtc cttgaaaagt 60

tccttaaatt tttttttcaa ttaggccctg aacttctggt tattnttaat taaatttgtc 120
 attgaccata gtcaacatat ttaacaagga cctaattaaa gaaaaaaaaa tataagttag 180
 ggactcaatt gatttttttt attaaaaact taattaaaaa ttatcaaata attcggggat 240
 gtgcaaacta atttaacttt tttttaactc aaagatgcct atatcatttc atcgaagata 300
 ataaaatcaa tacatgaagg gactacatta aaaatacaat aactaacatg aaattaaata 360
 ctttaataag tgaacgagcg acttaatttg tttgtctcta aatgaaaaaa ctntaagctt 420
 tgaacttgca at 432

<210> 21105
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 21105

agcttttact ctctatgtct ccattatcca gcaatatctt ggctctttta tttggacatt 60
 gagaagcaat atgtccaact ccttggcacc tgaaacattt gatatcatgg gatctagaag 120
 atgaattaat ttccatttta ccttttaggtg tagcaaatga atttttggac ttagcttcat 180
 ctttttgact ttgtcacaga tttgttggtt tgccaatttg acttccacaa agaagtggaa 240
 gcaaatttgg aagtactatt agctttgcat tgcctttcca cttgaataga tttgtgcaac 300
 aagtcttcca tctccacata atgtacaat tctaccatat tagctatctc tttctttata 360
 cctccaatga atctggccat agttgcctca cagtcttctt ca 402

<210> 21106
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21106

ntanacttga tattggatag tttacaatct gcattcagat ttaaaagtcg tagacaatca 60
 acttccgaag aagaagagga ggaggagtat tcatgtgcaa gaagacatgg aagaaggcaa 120
 agaggatgaac caagaagaga taatcatttt gggagcatta agatggcaac ccctatgttt 180
 caaggtaaaa attatcctaa gttgtatttg gagtgggata gaaagtttga acatgtgttt 240
 cattgccata attatttttg aggaaaaaaaa tgттаagcta gttgttgaat tcaccaatta 300

tgctagtatt tgggtgggac accttatgac tagtaggtgc tcatcatagc ctccatcatt 360
 atggccattn tctctttcat ggccttcac attatggcca ttttctcttt catggtcttc 420
 atcattatg 429

<210> 21107
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21107

agctnttgat gtcatatatg aaaataggct cttcgccgaa atttccggtt gttatgaacg 60
 ccgataatgc aaatgggggtt atatatacca aaaatatata gtgcaagaat aaaagttagg 120
 tgcacatctt cagtatttaa agtggcttta taattgatgg gtaatcaaaa ttaaaatttt 180
 acccctatat tcaacgtcaa ttctaaatg ttgattatac gaattgttta agatgaaact 240
 ctgattttta taagaaaaaa tattaataat acttaagaaa ctccgtcaaa gtgtttgcc 300
 tagtgcaatt agcatagaaa taatatatca aggctccaaa ctcttttttg nggcaaatcc 360
 cttctgctgt tggtagatag caaccattgt caatgtgatt ttgaa 405

<210> 21108
 <211> 443
 <212> DNA
 <213> Glycine max
 <400> 21108

ataagttagt tataccatag tctaaatatt aatatcaatt tatggaaaac taatgatcaa 60
 tgttacatgc acagggtataa taaattataa attatgaata tattgaaata ttaatcatcg 120
 tgtatgaaat atttactcta atacttatta acatttcttt tcttgaagc tgcgaagcca 180
 ctaatgattt aattttttta taggaattca cttttttaat tttcataata aaaaatgatt 240
 ttaaataaac aagtcatttg tcaaaaatgt tattataagg aaaaatttac tagaaataat 300
 caatcaaat tactcatcaa tagatacttc attaaattac ttaaaatata acattatagt 360
 gatcataaat taaaaggata taaagcataa atcaactact aaccaaatcc tagaaacact 420
 gcatgtccca gatacaaat gat 443

<210> 21109
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21109

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agctttaagc aaaatcaatc aacaataaca ttttactctc ctgtccgatt gtctcccgtt 60
gtatatcgag acgttcgata ttcagaatag aagctctgag caaaatctaa tgacaataac 120
ttttttctcg gatgtccgat tgtatcccggt agtgtattga gacactcgaa attcagaata 180
gaagctctga gcaaaatcaa atgacaataa ctttttactc agatgtccga atgaatcccg 240
taatatatcg agacgctcga aattcagaat tgaagctctg agcaaaatct aacgacaata 300
actttntact cagatgtccg attgtgtccc gtagtatatc gagacgcacg aaattcagaa 360
cagaagctct gagcaaaatg aaatgacaat aactttttac tcggatgt 408
```

<210> 21110
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21110

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cgaattcaga tcgaattgaa gttagcttag ctgaaccttg gccagcttat cggaatgatt 60
cagcctcaga tgcaaggggt gggcgctaag tgcttgagac tcatggctta gcgcatgaac 120
agagatgcgc ttagccgcag gcttgcgttt agcgaaagga ctgttttttt tttttcagaa 180
aagtgttttc taagttatct ttcagtcctt tttccaagaa attgaaacct ttgtgttaaa 240
cattcaaaga taagctgata tactcctatg tacaaattat acagcaagtt ccacatgata 300
taatgcatga aaaaacagag ataacaaaaa ttaaaactgg gttgcctccc aagaaacgct 360
tctttaatgt catgagctng atgcttttat ctactgggt gatcanatga acagtgcctt 420
gtgtccttgt anattcttca tcatg 445
```

<210> 21111
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 21111

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agcttgatg attatgggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
gcacaacaag tttttccaca tccacaaatc ggcataaac ccaccatccc ctggtgceca 120
cctccaactg agctcacgta ctcccacgta gcccatatcc tcgtttctct caacaccggg 180
tccccatcaa tcttcccaag cttccccaac atccaggtaa ttcaacattc aaacaacaca 240
aactatcaca gccaaataaaa cagggcaaag gcagaaaact ctgcccacaa caccaacca 300
aatcacagct tttcccactt aaagacccca gtaacatttc cttcgtttca attcgtaaac 360
cgttggatcg actcgaanat tttactggaa gtttctagta cataagccta catt 414
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<210> 21112
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21112

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cttatgaaat tttatttcat tggcttctta tgttttactg tggatcagaa tcaattaatt 120
atgagttgct ttcagaaatg tctttgtacc atttttctgt tctgtttgaa gtgattctca 180
gcttttatga gatttagttt tggttattgt ttaaggttat gtttggtttt tgcttttcta 240
aattcccttt catgaatggt tggttacttt gcaagtatgt tgtatattaa ttttttttct 300
ttctgaaact caattttata aaatcaaac ttgatttatt tttacaattt caatttacia 360
acaactatga acttagtttag aaacagaatt taaatatttt agtgagaaaa aatagtctat 420
aataccttca tagaaaaaaa tattacctat 450
```

<210> 21113
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21113

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catttactgc ccaagtttca tgatcttgca tgtgaagatc ctcataagca tcttaaggag 120
```

ttccatattg tttgttccac catgaaaccc cctgatgtcc aggaagatca tatctttcta 180
aaggcttttc ctcatctctt ggagggagtg gcaaaagatt ggctatacta ccttgctccc 240
aggtccattt tcagctggga tgaacttaaa aggggtgttct tggagaaatg tttccttgca 300
tctaggacca ctgccatcaa aaaagacatt tcatgcatca ngccacttat tggagagagc 360
ttgtatgagt attgngatag attcaagaaa ttgtgtgcaa gctgtcctca ccacc 415

<210> 21114
<211> 420
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21114

aaagaccttt tgatcctcat gtgcttgtgt ttatgggttt attgtcaatt ttagaatctt 60
gccaagttta tgtggtgttt gttttcatgg gtgctttgag ggtaaatagt agcctagaca 120
cttgaaagat agagtgtata tcttgtgagg ctttatcact tttcattctt caactgatta 180
actattttgc catgattggg ttgcttggat gattttcatg aatgtcttga cttttcggat 240
ctccttatgt tagatgttac ccattccttt cattccttga tgttcattga aaaatatgtg 300
aatgtttttg tttgcctctc tttgatatcc ttggattttg ttctttgctt cattttgccc 360
aagagttgca aaggctatgt atggnggggt ctgatgtgcc atcattttct tctattttct 420

<210> 21115
<211> 409
<212> DNA
<213> Glycine max
<400> 21115

agcttttaat gaactttctc ttcataataa aattcacata agtgttttga ggcataaaac 60
acacgtcata catatgattc gttcagataa caatcaatgt atattgatgt tctcctttgg 120
gtgtacacca acacacaaca tacaacatg atgatgctaa taaaactctt aacattatct 180
gacaattaa tatgcatcaa ttagtagtac ctatttcctt tgggtatata agtaaaacta 240
attatacaca caaataactt acaattatat tcattaatta taagaacaac taatcaacct 300
ttgggcgac cataaatgcc ttataacaat gaatttcaat gtaccataa accaataatc 360

atataattta gcatccatta ttctatgagt aattgaaata atcattaat

409

<210> 21116
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21116

tccatcaagt ggtatcagag cacaagagct tcaagtaggt gttccttaaa cctccattga 60
attgtttgct ttaccttctc ttccattggt gtttcttcat tttttctcca tgtatctcct 120
cacatgtctt gtgctaaatg ttgttaacat gattctttag agtttccacc aattaaactt 180
gctatagaag caagatttga ttttctatgg ttcanatttc ttgttcttgt tcttgaacca 240
tgaattgtgt tgagtttagg ttcccttgag ttttgtcttg ttattttttg ttgctgaaac 300
ctaaatcata aaattcttac aaaaatatta aagtagaaga aaacctcaaa aatctagagt 360
gacttgttca cctattgtag ttntgtcata gaagtcattg ctagtcattga aactngtcac 420
ataagatttc ttatgttgtg ctg 443

<210> 21117
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21117

agcttgtctc ttagttctac atattttcat aatgaatata taaataacaa aggctagtaa 60
aatcttcact atcaatttaa ataaatgagc tatcogtggg ccattaatgt tgagcttgta 120
atgcttgaac ttgactcatt taaataattg agcctatttc caagcttcac tttgtttatt 180
taattaaaca aatgagcttg attgagcatt taataagttg agtttgaata gttcaggaat 240
agctaagctc atttacctcc ctaaatttat tttatttttg aatctaagtt ccttatgtgg 300
tttagcccaa gagcatggta aatgtacatc atatgtggca ctaactttat tagtnttttt 360
tgtctttctc caatctcatt gctgttagca tatctaattg aatatcaaat t 411

<210> 21118
<211> 427
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21118

ntacaaggac aagtccaatc atattgtctt tgttgagtgc ttttagaaga tgcaggaaaa 60
tcccatacct tagcaaagtg agcatgcatt angcatgctt gaagataagt tgcttttctt 120
gcaagccgaa agaaggcaat aaaattaccc gttcggcacg ctctgaaaag gaaaacaaga 180
aggaatggtc agatcgcaaa catgataacc aaaaaagaaa caaaaactaa cttctacagg 240
aatttcaacc ttgctacact gcgagcaaat agaacttctg gagtctgcct tattgctgga 300
gtcatcttag caatttcaag ggagagctct gcaggttcaa cctagtatga catgcttagt 360
tccttggttn tttcgtagtg aataaagcca tataaatcan agcactacag aggctactta 420
ctttata 427

<210> 21119

<211> 408

<212> DNA

<213> Glycine max

<400> 21119

agctttatct tctcaaggaa gcttctcaag gaggtgagct tagttttcag atgggtgtgt 60
gtagctaagc tctagcttct caaggaagtt ttctcaaaga agcttctcta ggaagttttt 120
tcaagaaagc ttcttaagga agctacctag tctataaata gaagtatgtg taacacttgt 180
tgtaactttg atgaatgaga gtcttgtgag acacaactca tagttcaact tctctccett 240
tttcttcctt caatttcgtg ctccccctc tctctttctc tccctcttct tttatctcca 300
ttgaagcatc ctctccaagc ttcttatcca aggetcatct tgggtggtgaa gctccttctt 360
ccatggctta ttccctattg gatgacgcct cctctcacct cttctcct 408

<210> 21120

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21120

actcagctat gtgccaaggg tgcgggggtt attgctaadc tgcacctttg gtgaaatata 60

ttaccaaagg tttgggcttc gcaagactgc tctccctcgc ggactgcatg cagatatgct 120
 gctcttctct tccctcactg ccgacttcca gtcgaccttg atctatcatc tgctgtaaca 180
 attcctccac ttacaaacac gtttccatgt tatgcagctc gctggaatgc agcaaactaa 240
 aatcctcctt atgcccacca tggggaatca cacctccctn ttgtagggcc tcaatgataa 300
 acctcctagg gggtgccaca tcctttaaag gtttagaccg cagggcctat ctgacccaat 360
 ggcgttaacc gccccccctc catgattggc gaagcgggtt ggtttcacgt tgggccgatc 420
 ctcttgggaac gtcagccatc cagcatctat ca 452

<210> 21121
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21121

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 aatttataag tgatatgatt aatgtttaga tattttcatt atgaaactta agagtaaaat 120
 ttagtataat ttttatatca aatctaaaaa ctattcaaaa ttatttaaac ccaaaatcaa 180
 ttatagatcc aaattcaatt ttcaaactct ctgtatgcat aaaactaaag acaagagtat 240
 atctaaaata aattctaaac tcaaaaataa ttcttttaca tcaaactaaa cacatgatga 300
 ttntttattt ttagttttga atttataaaa tattaacact aattctaatt ctgagggtga 360
 tgtttcgggt ttaagatatt agatgttgct ttaagttgaa aatagataaa 410

<210> 21122
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21122

tctaaatgag gggggaaaat gcgtaatttt ccagcatgtn ctttaacgca tttgtataat 60
 atttaggcac catttagcaa gagttagtat gctatctaac accacagcaa tgcccttaca 120
 gccatgctat gctgactgga aaaaatacaa ttgaaagtgc aggttcctgt tgcatacagg 180
 tctgacccaa cgggtgatgct gtgcctgtac agtttcaaag aaagtcaaat ttacactgat 240

gtgcaaagcg agagttctga taaccagtct tcatcagctg gcccacatggc tcgtgaaact 300
 gtataaagta aattgcatga attctagtgt ccctgaccag tagaaacaga acttataata 360
 ttgggaaaag gctaaacctc ttctaccttn tgggtgaata ttctttgagc ttcttgatga 420
 cttaatcgta ctctctctct ttcaagct 448

<210> 21123
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21123

agcttaacat cagaccactt ccagggtgct ggaactactt cacatggact tgatggggcc 60
 tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgttgtgg atgatttctc 120
 cagatttacc tngtcaact ttatcagaga gaaatcagac acctttgaag tattcaaaga 180
 gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatta ggagtgacca 240
 tggcagagag tttgaaaaca gcaagtttac tgaattctgc acatctgaag gcatcactca 300
 tgagttctct gcagccatta caccacaaca aaatggcata gttgaaagga aaaacaggac 360
 tttgcaagaa gctgctatgg tcatgcttca tgc 393

<210> 21124
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21124

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 gcaatatcgg tgaataatat ttttttgccg aggtgggcta atgttttcct ggccaaataa 120
 atgggaacat gccagtttcg gccgaaaaga aacatcggtt gagctcgac ggaaaaacct 180
 agccgacctt cgttgtaaatt ttttttaggca acacccaaac aaaaaacttc ctctaccgtt 240
 aaaaaaaca ttatcggcca gcgtttgtaa aagaaattgc gcaatttcgg ctgaaagata 300
 tcaatcaggg acatataacg accgacaccg gccattgttt attctattta atccctgaat 360
 aacaattgga tgatgtcgat tangaaatgt tcgatcggca tcatccggtg aagcttcttt 420

tttagacctc gatcgggtcat ctttcctggc cgacgccg 458

<210> 21125
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21125

atcttgtatt acaagcattt caaacaagat ggatgcctac cttttagtg gtacttttta 60
gttagttgtg ggggtgatgt cgttgtttgc taccattgat ggtggtcaaa gaaaaaatt 120
tccctcacc cactgtggac gccaaatgtt ctttctggat ttggcaagat cttctcatag 180
tgggtgttct ttataagctc ctccacgaat tgttgtaagt ggtaccatac ttgcaaagac 240
actttgacat tcaagttaaa ggtgcagagg tatgcaagca tcaatatgta ngttgaaatc 300
aaaatgaatt acctgaacca caactatccc ttntatagtg gtgagaatgg attatcttat 360
ctcaatctct catctaagac taatgtaaca tgannaaata tgatc 405

<210> 21126
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21126

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cggaatggag aaggaagaaa tatgattgga gatgccactt caaggagaag atgagtcaag 120
cacaagctca ctaccatagg aagccatgga taagagcttg aaggaggaga aaatgagtgg 180
agggagaagg agcatgaaaa ttctgtgcct caaatgaggt ctgaactttg aattataatt 240
ctcaaagat ccaaggccta caagctctac atggagctac atcatgtggt atcaaagcat 300
cttctctac gtgatgttct attgcttctt ctatcttttt gtttggtcaa ttcacttta 360
ttcttgttc ttctccatgt atctctcca ttgtctctg gtttggtgat gtttagagta 420
gattaacaaa gataac 436

<210> 21127
<211> 399
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21127

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agcttttgaa gcaactgtagg acaggtgcat gttgctgaat ggaactatgt tttcaattcc   60
tttgtagtgc tttttctatc tttagtaaaa tgtgatttgt tctttgaatt tcttcaacct  120
ttgtccaatg ttcacttgat tctaatttat agaatgagca atttagatgg tattattggt  180
ttgtctgata aagcagaatg ttaaatgcaa ttataagta tatatttatc agtaaattgg  240
cattcattcc tgcaactcaa tacaattaaa cctattgtat ctatgctaaa taagaactta  300
aatgaacta tataaaatta tttaattgca cgaatganat tatattcatc taagagcttc  360
aattatttga attacgcagc aattntatga acgctgttg                               399

```

<210> 21128

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21128

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tgtatgagtt agtttatgtg tagttattat ttgaggana gatctttaga tagttaagta   60
gttataacta gctgagtttg ttgttgtaag ctccctccat gtatgaaaac tattcattgt  120
aatcattca aagtgatca ataatacaag tctcattctc aattctttat taattcccct  180
ctaaatagaa actctgtgtg tgtaaaccac ccttgctcca atagatttgg tatcaagagc  240
cttgtgcat caagggagct tctgctgaaa ctgagagaaa cgttcattat tattgatcat  300
tgttgctaca accatggctg ggaattcgtg ttttctaaga aatttaacaa tacttgatgg  360
caagaattgt ggacgatgga acattcaaat gaaggtaata ttttggtttc aagatgttct  420
tg                                                                                   422

```

<210> 21129

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21129

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agctattctt cgtgggttga tgggttctgt ctcatagaat ggcatgatca ctggctgaca   60

```

tgttctcaat taactcagtt gcttcttctg gggctcttcag ttttatcttt ccccttcgag 120
 aagcatctaa caattgcttg gtttatgggc tcaaccatc tataaacata ttaaatecgaa 180
 ttggctcata aaacctatgg gtgtgagttc ttctcaataa acctctgaac ctctccaatg 240
 cttcactcag agattcatca gggaaactgat ganatgaaga gattgcagct ttcccttcg 300
 caatcttggga ctctgggaag tatctcttta ggaacctttc aacaacttct tcccatgttt 360
 tcagactggt acctttaaat aagtgaagcc acct 394

<210> 21130
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21130

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 agttcttctt aatgaactca gttcttggtt tcctttggga gaaggcaacc ttggtgtaat 120
 gatcctccat gcgtccgcat ttaaaaatct taagttttgt gaaaagaaaa tatagttaa 180
 ccaaatttgt ttttgtgaag ctgtgatgaa ttcttgcaga ctgcttggtt tcttcttcat 240
 tttttgctct atttgtgatt gggagagtta caaataaaaa ggagactctg ctcaatcttt 300
 ttagaatttt ttcacaagct taagtttaga aatttggggc catgagaatg gtgagattga 360
 ctggaagatt gagttctctg gactagtctc agtagttcaa gcctatctta naatctacc 420
 attggttttt catgaaattg gtcttntttt gcttt 455

<210> 21131
 <211> 390
 <212> DNA
 <213> Glycine max
 <400> 21131

agcttggaca atggttgga aatcttgcta aaatcctaga taaatctctt gtaaaacttg 60
 gatgtcgcag aaaagaacgt acttcccga cagatgcgtc gtaaggaaga gaagtaataa 120
 catcgatctt tgccttatcg acctcaatac ctctactaga gactgaatgc cctaagacta 180
 tacctccatg gaccataaaa tgacattttt caaagttaag aacaaggta gtctcagcat 240

oggtcaagaa ctctacagag gttatccaaa catgcatcaa aggaagaacc ataaacaatg 300
 aaatcatcca taaacacctt catacaactc tataataaat cagaaaagat actcaccatg 360
 caccttttga aggtgccagg agcgttgcac 390

<210> 21132
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 21132
 gcttgagtga tattgtcaca gaatacactt gaggcacctc ctctatttca tccacccac 60
 ttgaattcta gtcgcgcat agttaaaaag gtgtatat ttacagcatt gaggagaaat 120
 aataatcaag ggaataatca ttctattttc aaaataataa ttgttacagc tgtcatgaat 180
 tactagtagt tagttagagg gggtaagaaa ataaatagga aagactgaca gagggaggag 240
 aataataaat gtaagaagag ttggcctctc aaagagctaa gttaggattg atgcagctct 300
 tgctacttca tgtattttga taaagaacta tccaaggaag aaaagtttga cttaagtga 360
 ctcaaattgg atggactaat cactagagca aggagtaaaa gatttcaaga agagtttgtc 420
 aagagactaa attctctcat ggagggaaaa gaagaagaag tg 462

<210> 21133
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 21133
 agcttgatcc acctgcagtt ggcaaaatag tggcatatgt ggaaaacaat taattaatac 60
 aacttttttg tgcaatggaa atgaaaaaaa taaggatgat atcttgtaaa tggaaacttg 120
 gggattgttt ggttggacca atttatgcag atacatatac attggaattt atttttctga 180
 ggttaatttc agtcatgacc tcttggaaagt aattatgtct tttgcttctt tggatatatt 240
 gtggttccca ttctaattc atttttta atctgccaca gggtaaaaat cagagttttg 300
 atcttcctat taagaaaagg agtgacatct gtacaataat gtatactagt ggaactactg 360
 gtgaccccaa tggagtgttg atatcaaatg agagtattat tactctctta g 411

<210> 21134

<211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21134

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 cttatagtaa aacacaggta gaaacgtgat atataatttc tctggcagtt taatttttga 120
 agctgtgcat gttaaacaat ccaagaagag gtgagtagtt attatgagat ggcgcaattt 180
 gcagctccaa ctaataaggc tggttacgta cgcagacgga gcacatggtc cctcagagac 240
 ttattaactt tacttgtcta attcactgct tatggcgcac cacgtgcccc tactcttacc 300
 attaaggact tggatactaa ttgcaaaact ttntttctcc tatttttacc agtaaggta 360
 agtgtttaaa tagattgtaa attactagta tnntgatttt ttaatatgat tatatacaca 420
 ttattggaga ataaatgcaa gtttctgtat tct 453

<210> 21135
 <211> 325
 <212> DNA
 <213> Glycine max

<400> 21135

agctataaat tttgatttaa aacgttcaga aactgctggc aatctattac catatatgtg 60
 tgatctatta cacagggcaa attttgaatg caaatgttat atagctgttg taaatcagga 120
 ttggctcact ggtaatatat gacatcctct ggtaatcgat taccaaacag tttgtagtat 180
 gcaaaggact gtgtaactta catctcttgg acaaaccttg tgctacttca ataggaagac 240
 ccttcctatt taatataccc ttataagac tctatatact gtcttgatca tccatcgaga 300
 atatcatgaa ttgcttggtc tcgaa 325

<210> 21136
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21136

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gtgaacttca tagactctca agatgctcag tagctcatcc catgcaagat tttttttttt 120
atctcttgct tcttgaataa ctatgggtctt tgggtcccag accttaggga agctatatag 180
ttccaaaaat ataatcatca naataaataa aattatgact tagaaccaca tattagtgga 240
tgttatccaa acctctctcc atgtgatgtg tgtacaccaa agcttaaaag cttctcttga 300
agtgtcatgt tgatttcgaa cctcttagag catccncaat gagaaatgct tacatgaatt 360
gtttaacttt aagtaacggt gcttattatt gtcaggcccc actagtctat atttaatatata 420
anacaatatt ataagaattt actttctata ttaaaat 457

<210> 21137
<211> 408
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21137

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cctttctctc tctaaaatct ctagacatgc aaagctctga atcccagtc aaactcctta 120
tctaaaatct gatttcaggc ttaaataggt gaccttggtc gtgctcgtgc gcttagcgca 180
attttgacc gcttagcgca cattagtga ttcgggttta ggcggtgcct ttgtcgctta 240
tcggatggac tgaagcggtg cgcttagtga gatgaagcgg tgcgcttagc gaacctatac 300
aactcatctt cttccagatt cttccttgcg cttagccaat gagtggttacg cttagtgggc 360
gctcgctaag ccaatggact ggcttagcga gaaggtgaan aacaacac 408

<210> 21138
<211> 445
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21138

nttatccatg acttcctatg gtggtgagct tattcttggc tctccttctc ctttaagtgg 60
cgtctcaaact cacctttaact ctttctccat tccactgccca ttgatcttca agaagcaaag 120
gactccattt atgaagaaga tccaaggcct acaagctcta catggaacta cattataaat 180
ggagaatgtg tacagattgt agggctatca acaacataac tgtgaagtat aggcacccca 240

tttctaggct tgatgatatg cttgatgagt tgcatgtgca aacatatttt ccaaaattga 300
 tgttaaaagt ggttatcacc aaatagggat tagagaaggt gatgaatgga aaaccgcttt 360
 caagaccaag tttgggttgt atgagttgct agtgaatgcc tttgngctca ctaatgcacc 420
 aaacaccttc atgaggctaa tgaat 445

<210> 21139
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21139

agcttgtaat cgattacaca tatactgtaa tcgattacct gagcagattt tcagaaaata 60
 ttctcaacag tcacatcttt ttatgtgggt cttgaatggc tatcaaaggc ctatatatat 120
 gtgacttgag acacgaattt gcgaagagtt tttcaaaaca aaaaagtctt atcctcttat 180
 aaagcaaaat tgttttatcc tcttaciaat tccttggcca aattacttgt gattcaataa 240
 ggaatttttg agtgctcaaa ttgttcaatc tatctctttc aagagagatt tcttcttttc 300
 ttcttcttca ttctgaaaag ggattaagag accgatggtc tcttgttgtg aaagacatct 360
 aaacacaaag tgatgtgaac cttacngtgc acggatcgct tgataca 407

<210> 21140
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21140

tattgctnta gcactaattt tcagctcgct tngcgagct gtaactgccc caaagtgacc 60
 ctttgcctat aaatagccat cctaggggtg ttttaagggg ttccaagggt cagaagggtga 120
 gggaattttg aaaagagaga aagaagagga aacaaagtcg aggcattgcc gaattgcaac 180
 cgcgatcatt ccctatttcg ttntcttggt ctgtgttctt cgtgcaaccg tcagttagtt 240
 tatttttttt gtaattgaat gtgatctatg tacccttagg ggtgcccccc ccccttggt 300
 attttggtgca tattcatctc ctccatctat cattgacgat ctcatctttc tttataaagt 360
 tcaatcttaa ccgatcacta gtgttgtaaa gttgtcttta nagagattga aagttaataa 420

acaaagccaa gataaaacca actcat 446

<210> 21141
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21141

agctntggag tttccaagtg ccaattcgtc ttcttcctta gtccagtctt cttctggctt 60
 caattcatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
 gacagctttc caggttctgc tatccagtga ttgaggaag gccaccatcc ttgctttcca 180
 gtattcatag ttggttccat ccagaatagg tgggtctgtc actggtcctc cttctttctc 240
 catgttcata agaatttata tccctagatc tcaactcagt atttcgagt ttggctctga 300
 taccaattga aattctgata ctgngacag atgtcgtaca ggatgtcacg acatcacgct 360
 tcagaacatg cagattgtat ttgacagtgt gcacagttta agcaagt 407

<210> 21142
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21142

ntaacctcat cgtccctcac agtctttata tttgggagcg tatccaatcc ttgtgttcgg 60
 actctcagcc acttatgata gccgccgatg atcccattac tgcttcccct aagctctctg 120
 tcctttcttc acgccgcata ccatgccttg cgaactcctt ggagtaccct cgcgttgtgg 180
 tcactaaaac cccgtgcgat gaaaggcgtg atgctttcgt ctaatggcgc tcctctcatg 240
 gggtagccaa gctgtcttat ggcgagaacg agattataat taatacaact ccttgttccc 300
 atcaagggaa catttggaca tccttcgcata gaagatagaa tctcgattct tccttccttc 360
 tagcgaggga accaattaac agacgcccc ccatgctagc caagagttgg tcccaattcg 420
 cctttccttt ntcgacgcac gagcg 445

<210> 21143
 <211> 407
 <212> DNA

<213> Glycine max

<400> 21143

agcttctcca tgcaaacttc attaaagagg tcaggttttg tacttggtt gccaatgccg 60
tcatgggtcaa aaaggccaac ggcaaattggc gaatgtgcac cgactacact aatctgaaca 120
gggcataccc caaagacgtg taccctctcc ccagcatcaa taggttggtc gatgaagcgt 180
acgaattcca ggtgctaacc ttcttggtatg cctacttcgg atacaactag attagaatgc 240
atcctctaga tgaggagaaa atgaaattca taactaaaaa tgtcaacttt tgttacaagg 300
tcataccatt cggcctagaa aatgcaagcg cgacattcca atgaccaatg gaccgagtct 360
tcatacaaca gatcggacga aatgtcatgg tatatatgga tgacatg 407

<210> 21144

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21144

tgaatatgan aaaaaaacg agaattaaat atccccatct ttttatccaa acatctttgg 60
acgttgcttc caatatgctt cctcatgggc aaggagatgg ttgagcttat atttgataat 120
ggaaaattga agagttggct cttcataata agcttctcta agggctctcca attctttttg 180
gtatgaatct atttggtatgc aaaaagaatt tttcagttaa catccccaag catgcatgtc 240
tgaggaagat tttccaagac ttgaaaggaa atcatcattg ggtgcactag tccacccta 300
ctcaaaaaca agatcaatat ctagtttaag gagccaagag ttttcaaagt agaatttgct 360
tttgaacaaa tcttttgtgt tgacatcaac ctttaaatg attggagagt gatc 414

<210> 21145

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21145

agcttctaag aattggggct gcaatgattg tgcgaaattc tccatataga ataacagagg 60
accaaagacc ctgtggttcc tacttataac ttatgaatag aacatgtgtc attgtgaaat 120

tttgaaactg ataatgcttc tctaaactga tgcacacccc ttccctcttt aactacatta 180
 tcatttcata aactatgccc accacctgct tgtgacaatt cttacataaa actgaaaaca 240
 atgcttaaga atatgcgact aaaacaagta tgaacattaa acaattcaag taattaagca 300
 tggcttcttc ctcaaagtga tgttctgcag caagaacaat ctttccctta agtcctaatt 360
 tggagaanaa taaaacttgg aactaaaatn gaaagcttgc tt 402

<210> 21146
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21146

tatttaattn tcttttctta taagtgttta tggagaagtt tatccaaaca gggcatcaat 60
 tgcatttcgt tcattntggt tatttaattn tccctactaa gtctattcat gtcttgctgc 120
 aaattntatt ccaatttctt gtcttanaat tttctgcatt aactgccatg atctccttca 180
 ttntgtatth taaaacaaat atgctctcat acgtaaagta aatgttctct tcgaatagtt 240
 tatgtttgac ttaattcaat ggcatttgat ctatatggcg tggatctcac gtagtgggaa 300
 aaggttatgg gtttgttgat gttgaattcc atatataatt aaaaaagaat aatggatata 360
 atattctaga gacccatgca ctcatth 387

<210> 21147
 <211> 379
 <212> DNA
 <213> Glycine max
 <400> 21147

agcttctcaa tagagttagg caggtaactc tgtaataagt cttaaactct atccctacat 60
 acattatgca aaatatgcag ttgccctccc tgtagagctt gtaggccttg gatcttcttc 120
 atcaatggag tcctttgctt cttgaagatc aatggtagta gaatagagaa ggaggaaagg 180
 tgattggaga tgccacttca aggagaagat gagtcaagaa caagttgacc accataagaa 240
 gccatggata agagcttgaa gatagaataa gatgagtgga gggagaggga gatgatgggc 300
 acgaaatcta tttctcacat gaggtctgaa atttgaagtg taatttctca aattatcaaa 360
 gctgaataat atgcacaca 379

<210> 21148
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21148

tgtaaaaatt tatagtgaca cccttcaaca tacatatagt gtaacacaaa ttcacgtcac 60
 tcagtttcac tttccaaagg aattgtttta tttaaaaacc atagttggca tatttttagaa 120
 aaataagagt ctaagattat actaaaatag gaaaacactt taaaagtttg tggggattta 180
 cagagactat ttacaatgtc atagtaacaa aacatatattt tccaaaacta aatttgcatt 240
 ccaagtaccc ttttcaaact tattttcctt ttgttggcaa aattctattn tagtcgtaat 300
 aaatcatttt taattaacaa agtaccttga aaatntatga gaaaaatgaa gcattctctt 360
 tagagataac tntacgacan ttcattttca tgcattganat atatgcacta natcactaaa 420
 tatatacttt ttttc 435

<210> 21149
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 21149

agcttgtgcc aatcccacat ggttggagca ttcttgcaaa acagcgtgac cccaactggt 60
 ctctctatga ttttacctag tgagagtgac ctaacttact agtgtatggt ttgacttggt 120
 atgtactcct aggcgccccga cgagggtttt caatgaaacg gtaccacatt gcatatagga 180
 ttgagtctta gtgtatttgt tgcataacgc ttgtgtattg atagatattg attgatttag 240
 taatattgtg ttttgatcct tgagtacgtg aatgttgtga aaatgaacga gacatgtggt 300
 gtgatgtgat gttacacgac aaagtgggtg aatgacgcga actatgttta agtaagttgt 360
 atctcattta tatgatatgt atatctatgt tgtctcattt ctct 404

<210> 21150
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 21150

atagtntat gtcaagattc atgaatagtt ttatattaca ttctaattat cccttcacgc 60
caaatccctt atggcttgaa gcgtggatag tgtgcaatcc caccagcctc gtgcttaaat 120
ttaactttnt attacaaaaa ttggggcagc acagattgaa atctagaaca ctaagtcata 180
gaatctttgt taccatatac tggacctatt atcccaaaat cttgagctat taaagtgaag 240
atgcatgatg attntatatt acgtctctaa ctcccataat atttaacaat ttggcacttg 300
gatgaataaa ttntgtttga cttctgtcat ctttctgtgc ttgtgtgtgt agaatgtgat 360
agagagagat gaaatgaatg tctggagatc ttgaattgga agtttatgta tgatttcaca 420
tgtcaattca ctgactaa 438

<210> 21151
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21151

agcttcacag tttatntttt tcaaacttga gttttggaag accaattact aagtctttcc 60
taactagatg atataaatga tggatgttaa tgtgttcaac cctacaatgc cacaaccatg 120
aatcatcatc tatcttactc accaagcaac ttagctcatg aaaagatgca tgctcaacat 180
tcagcatata aatattacct attctcttac caatgtggac aactttacca gatatggctt 240
cacttataag atagcaattt ctgtcaaact caatcttgaa acctttatcg caaagttgac 300
taatgtttag aaggttatgc tttagtgcac ccatatgtag cacattcttt atctgagttt 360
tgtgttaatt ccctatattt ccttccccag ttattttt 398

<210> 21152
<211> 452
<212> DNA
<213> Glycine max

<400> 21152

gcttcacgat gatgaatcaa gttgattcaa gtagttttga tgattacaaa gatgatgaca 60
aaaagcccaa gagaatgatt tcaagattga ctcaacaagt ttcaagaatc aagagaagtt 120

tgatttcaag attcaagaga agatgaattc aagattcaag agaagaaatc aagaagactt 180
 cacaagggaa gtattgaaaa gattttttcaa aaaacaaaca tagcacagtt ttttttttca 240
 aaacagtttt tctcaaaatt ttctaagcta ccagagtttt tactctctgg taatcgatta 300
 ctagtttcct gtaatcgatt accagtggca aagtttgatt tcaaaagttt tcaactgaat 360
 ttgcaatgtt ccaattaatt tcaaaatggg gtaatcgatt acaagatatt ggtaatcgat 420
 tactagtata tctgaacatt ggaattcaaa tt 452

<210> 21153
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21153

agcttgtgtg atgttgcgcg tactgatggg taccatgaga tgttttctgg ggtttgaccc 60
 acgcggtgtg tgaagagacg gcatgggcat ctcttcctt cctttntgcc cctgttgccc 120
 cgattctttt ggcattcgcg tttgtagagg aaacgtaatc aaactttcct cttttcaatc 180
 caacctcgat tctttccccg gcaaacacca gatccgcaaa gctggacggc atgtaacca 240
 ctagcatctc atagtagaac actggcagag tgtctacat catggtgatc atctctcttt 300
 caaccatggg aggagctact tgtgccgcca aatccctcca tcgctgcgca tattctttan 360
 aggtttcacc ctctttcttg aacatattct gcagttgagt acggtcagga gc 412

<210> 21154
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21154

tctatggagg ctggatcttt gagctntaat aaggtccttc tttgtgattt tttgtcatgg 60
 agttgtagcg gaagataaag gagaagaggt tagaggaggc atcatccact agagaataag 120
 ccatggaaag agaagcttca ccaccaacag agtgccttgg ataagaagct tagagaggaa 180
 gcttcaatgg aggaagagaa tgagagagag ggggtgcatg ggaattgatg gagattaggg 240
 agagaagttg aactttgaag tgtgtctcac aagtttctca ttcacaaag ttatgacaag 300

tgttacacat gtttctatTT atagcctagc acatgggaag cttccttgag aaacaatgaa 360
 ggtagcttcc cggggaagct agaggaagaa agcttccttg agaagttaga ggggggctac 420
 tcacaccct ccaatagcta agtca 446

<210> 21155
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21155

agcttgtgat gttgttgttt gttggtttgg cctctggctc tttcacttat agggatagta 60
 ttttgcattg tgttatgttc tgtaatttgc ttggctttgg tactagtttc taactaatgc 120
 tctcatgaat gaaatatact attattaggt gctctcagtc atgggtatTT tagggatcat 180
 ttgatgtagc tatatgttta aggacaccct cccaagaccc actaaacctt gatgccctat 240
 aactatacca cccagctaac tgcattttga tgatgtccat cagtcacctc gtcagacaca 300
 tgtaggctga agtagtaact tgtggttntg tggaatcgtg tccccaggat tagacctctc 360
 cagaggagca tttcgaaaca attatttggT ctagaaaagg tactttgatg taa 413

<210> 21156
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21156

gcttctgcat gtctagagat ttctagagac agaaaggTcc aagttccaga gagtttgaga 60
 gattttgttg tgcaaggacc tgcagagacc ggagcttgaa gaggaagttg tcctgagagc 120
 ttgagatgtg tttgtgagtg agtgtgaggt cctagaggTg gaggaacat cccactact 180
 tgtatttctt caatccttca tctttctctt ctctttgttg taaaggaagc ttcccagtta 240
 tggagagcta aatcgtctgt tgtttcttcc ttgtaggtac ttgatgtaaa tacctatata 300
 tctatttaat gatgttttgt gtgttctactg tgctatcaga acttcattct accatgcttt 360
 tgtcttgatc atgtagatgc atgtgttaat aggatcattc aacagtggaa actggtttga 420
 ttcttanaac ttgataaggc agggctagtt tatcgtatta tc 462

<210> 21157
 <211> 412
 <212> DNA
 <213> Glycine max

 <400> 21157

 agcttggacg aataaggtga tgcacttagg aaacacaaca acaaacaggt atgaaaatgt 60
 tcatttttta ttagggttga tgaattcatg gattttaatt gttttttgtg tatttgaaat 120
 gtagggttga atttgctcat tgttatttgg gatgccatga acaacatgat aacgctgcaa 180
 cacactgaag ttaaggcatc ctttgagaca aatacacatg tggttgtaca tgtttttaaa 240
 gttaccttat acaagaggct acttggcatg gtatcaagggt atgctttaaa tcagattgct 300
 gctgagtatg gccgtgcaca ttatgctgga aaaaaaccct tctcattgtg gatgtgtgat 360
 aagaactacc cacggtcttc catctgcatg tgagctattg aagtatgctc tt 412

<210> 21158
 <211> 441
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21158

 ctcaagcttg gatttccttt gctctggaaa cctctccttt cttatgtgaa cccaaaccca 60
 tctctccaga ttggaaaata acctttttgt gcccttggtt tgcttgttta acataactct 120
 cattcttctt ttcaatttgg gccttgacta tttcatggag ctttttcaca tagtccactt 180
 tggcttcctt ccttatgctt aaaaactgaa atattagaca ttggtaacaa atcaagagga 240
 gttagtggat tgaaaccata agcaacctca aaaggagAAC aactagtggg gctatgcaca 300
 accctattat gagcaaattc aatgtgaggt aagcaaactt cccaattttt aagattcttt 360
 ntcaaaatgg tccttagcaa ggtacccaaa gtcctattca cgacctccgt ttgtccatcc 420
 cgttgagggt gacaagtagt a 441

<210> 21159
 <211> 405
 <212> DNA
 <213> Glycine max

 <400> 21159

agcttgtcct tctattgtta cattctcccc aactgcaag ttctgacttg aaaaaaaaaa 60
attatatcat gcaaagtctc caaatgaatg tggcacgttt ctttttcaat tctcaciaag 120
ttatgttgga tcatatctcc caaaaagaaa aagaaagaaa ggaaaaagtt aagttggatc 180
atggtatgca taattgaatc aattgggcaa aaattgacaa cacaacatgt gatcaataat 240
gttttgttaa actatgaaaa agaaagggtt tgtaaacgg tgcataggga gttctgcttt 300
cagaatctac tactatTTTT tctgatttca gaatcaaaac cataaaaggc tacaacaat 360
tacagctagt taaccaaaca gcttgcttca attcctcatc tcata 405

<210> 21160
<211> 446
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21160

tgcccagaga aggagtccac ggaggaaatg cttaccacct ttttaagactg gaaagcgggt 60
tetaatgact cctctgcggc ctccacataa ggcatagagg acgggcagct caccaagatg 120
tcttcttcgc ctgatacgat gaccagatgc ccttccacta cgaatttcaa cttttggtgg 180
agtgtagagg gaacaacccc cactgagtgg atccatgggc gcccacacag atagttgtag 240
gggggggttga tatccattat ttggaagggtg acttgacagg tgtgagggcc tatctgtact 300
gggagatcga tctctcccct aacctctcgg tgggtgccgt cgaaggcacg aaccaccatt 360
gaccttggct ntaagtagga ggcattgaat ggtaatttct ccaaagtgtc cttatgcac 420
acattcaaac tggaaccatt atcgat 446

<210> 21161
<211> 410
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21161

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ctaaattcca ctaatatata gagtgtactac tcagaaggaa gggttaggca ttgattaggt 120
ccatctaate tacctaatta aactatttac acaacacaaa gcccaacttc gcaaccaat 180

tattaaagtg cagaggttct gacttccaag ccgaatttga ccctcaaat gacagaaatg 240
 acccaagcta attttgaaaa aattgaagat ctttttctta gctnttcaga gactactcac 300
 acacccatt tggagttcta caatgtacta tagactctgc acaagacaaa taggtcaagt 360
 gagcataaaa ttctaagaat aagccacaat tattaattaa gcttaatcat 410

<210> 21162
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21162

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 tggcgctcc tctcacctgt tctcctttgt cttccgctgc atctacatgg tggaaaatca 120
 ccattaaagg acctcattga agctcaaaga tccagcctcc atagaagccc cacaagcaag 180
 cttccatcaa gtggtactcc accttggaaa ggatttgacc tcaaattccg aggttcttta 240
 tactctgggc tccttccctc aacacctgta aaaagaataa aaacatatgt attagcgggtg 300
 ttgggttaca gtagggtaag gtctgaaaac ccctttcatg gacatcttcc catgagggaa 360
 catggttcct caccaattca atgagtggtg ctacaagtat agaagaatat gggacaaacc 420
 ttttgtaaaa gtttattaag tcatg 445

<210> 21163
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21163

agcttggatt tcctttgctc cggaacctc tcctttctca tgtgaacca aaccaatct 60
 ccaggttga aaacaacctt tttgtgcccc ttgtttgctt gtttagcata gctctcatc 120
 ctcttttcaa tttgggcctt gactctttca tggagctttt tcacatagtc tgttttggct 180
 tgtccttcct tatgcttaaa aactgaaata ttacgcattg gaaacaaatc aagaggagtt 240
 agtggattga aaccataaac aacctcaaaa ggagaacaac tagtggtgct atgcaccgcc 300
 ctattataag caaattcaat gtgaggtaag caaacttccc aattnttaag attctttttc 360

aaaacggtcc ttagcatggt acccaaagtc ctattcacga cctcc 405

<210> 21164
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21164

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aagccatgcc ttttaggatt agagttgctt ttgaaattnt aaccaaaaat ggttaaagta 120
agtttaaacc aaaaatggaa actcatccta tcctaataccc ttagatagag gtgtgtaacc 180
ttccttggat tttgtgtaat ttgagtgaac cttgcacaaa gtccactctc atagagcaaa 240
attacactgt cactcaagac atagtgtaat tctttcacag atgaaacttt agctcataaa 300
ttntttatat ctctctcaag ctatgtattn taagacaatt cctagttata atttgctaac 360
acattcatac taaaaaaca tggtgcatac gttactgat atctataaaa atatatacaa 420
ataacttaagt atttaatat aat 443

<210> 21165
<211> 412
<212> DNA
<213> Glycine max

<400> 21165

agctctgcat tatcgagagg aagcacttcc tccaccacct tgtgattatg agagatagga 60
tttgttggag ggattttgct ggagagaatt gaagcctcaa accagaatga atctagcaac 120
ctcagaacat gttctgcagc cattattatt actgtcacia aatgaatgaa tagcttaaatt 180
tgaaattaga tcctacaaag atatgatgag gatagaggag attatagaga taagattaag 240
atgtgtgtcc tatgtggcta tttatattaa gaggggcatt acttaattgc cagtggctct 300
atatgctgtt gttttattcc cctattttat tcgaatatgc aatatgggaa atctcacgaa 360
gctttcttct tatgtttgtc tggttctgag aaaatgatga aattaatatc tc 412

<210> 21166
<211> 471
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21166

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acacttacct cagattaaaa gttttttctc ttctttgata cataaatgaa ttggttaaat 120
gaacctaaaa gatgggtttt ttttttataa aaaacatttg ggtaaagcag ccaattctta 180
agatgctttg gtatcccgt ccaaattgga cattcttggt acacaactgt tgttctgaac 240
gtataatata ttgtaatcaa cgaaataaaa ttactatcaa tcaaagatac tagggcatta 300
acataattat gagtggatta gttggaatta aaaaaaact gantaacggg gttgattgaa 360
tttaactaaa ttcaattata acctttttct cagtaactaa ctaattacaa aaagcaacac 420
aagactcgat gagtgtcttc atgccccaaa atatgatact atgttacata g 471

<210> 21167

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21167

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atcttgattt tacacacaca cacaacata tagtggaat acaagaaatt ataaacttta 120
atatagaagt actagacatt gccaatctga agtgaggag aagaaaataa gtactgttga 180
agatacacia gtacatacta tcttgactg aaaactggtt ctgtgtcagg tgatggttgt 240
gtccttcgag tgtatttgag tagcaaccct tctgaagaaa gacctggtac cttcagatct 300
ctgaaacatc tcataagggg ttaattcana tgtaaaaaag atgatacgtn tgaaggtaaa 360
aataattatg agatgttcac ctgatat 387

<210> 21168

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21168

taactgtttt gtaaaatgga acatatgaac taaatcatgt ttgtgataac aagatatgtt 60

ntaaaccaat tctattatat gcatcaaagt atgaaaaatt tcataaaaca tgaaaactat 120
 tttgttcatg aaaagctcaa attaacattt tgaacaatag ctttctgaac acaacatttt 180
 gagtactgca tctgcataac ataaattggg tttttcataa taacagtatt ctaagagaca 240
 ttaggttctc acaattgggt tttacataac attttgaact tgagcaaagt tgattgacat 300
 taggttctca caaatcatat caaacattta ataagttagta taatgactaa ccacttagaa 360
 agcttagcta tctaagtact tgaacctcta tgtc 394

<210> 21169
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 21169

agctttatgc tgttcaattg cttcagattg ttgcaaagaa aggcaaaggt ctgtgtggtg 60
 gtcgacagag gagcataaac cacagagtct ggcgataggt gcagtttttt gattcatggc 120
 cagttgggtt accagggttaa ccaaggcatc tagtttacct tcaagcttct tagtctttgc 180
 taatgaagat gaattcgtgg ctacttcatg cactcctcta atgacaatag cataatttct 240
 ggactaaat tgctgggagt ttgaagtaat cttctcaatt aaatttctgg cttcagtagg 300
 ggtcatgtct ccaagggctc caccactggc agcatctatc atacttctct ccatgttact 360
 gagtccttca taaaaatatt ggagaagaag ctactcagaa atct 404

<210> 21170
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21170

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 acctggagat atgtcgcgng ggtcaggaga ccttgtggac gtcaggtggg gtgctattgc 120
 ccanaaccaa gcttgaccaa tcccgaacca acccggcata gtcggtcagt gagaacctgt 180
 gatgtaccta agcaggcgag ctctggcgag tcaacagata aacgganaac aagaccacaa 240
 agcaaggagg cttgtgggtg ctggccaact gtgaattttg tgtgatatgt ggattatgac 300

ctctggtaat cgattaccaa ggggtgggtaa tcaattacaa ggcttanaaa tgaagacagg 360
aggctaagat ggtctctggt aaatcgatac caaggggtgt aatcgatta 409

<210> 21171
<211> 205
<212> DNA
<213> Glycine max

<400> 21171

agcttctatc ctatggactt accttgaatt aattcctttg atagccccctt tgagcctatt 60
ttcccatctt tttgttttga agctcattac aagccttaag tgaaaaacca tgatatacacc 120
ttacccttaa ggaatttttg agctttggaa ttgttttggg aataagctgg gaataagtgt 180
gtggtggggg ggggggtttt aaaat 205

<210> 21172
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21172

tatatatnca atagtattta tatggtctat ntatgtatat gtgntatatt tgataaatga 60
atagtttgag gtagtataag ataacaattt tgtatagttt agtttgaatt gttaatgtta 120
tatatgccag attatntttt gataaatgaa tagtttttagg tagtataaga taataattct 180
gtgtaattta ttttgaattg ttaatgttat atatgccaga ttatatatttg ataaatgaat 240
agttntaggt agtataagat aataattncg tatagtttag tctgaattat taatgttata 300
tggtagatat gatatacggg tatatgataa attagtgtcg caacctacc 349

<210> 21173
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21173

agcncgctac attggataac atganaaact gtctttgcag agacagagag ggaaagatgt 60
gaaaaccag ttacctaggg gaattttgcg atccgctccg agtaaaactac actagtttgg 120

cactaggttt gatgacatgt caatgagtta cttacagaaa tgatocaaca attgaatcag 180
 ctcggctaag ggtctggttt tcgattcaac cagccgggcc gagccgagtt taataacact 240
 gattngtgg gttccttact tagtattgaa aatcctgctt tcaatttgat agtaggtagt 300
 aaagttcttc ttcattggagt atgtctcatt aagattctcc cgcatttcac aaatggaggt 360
 agaaaacata caattacagc ttattttttg aatc 394

<210> 21174
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21174

tgatgatgaa ccaagcaatt ntgatgatgc caaaagccca tgtgattgat tcaagacttc 60
 aagatcaagc atcaagaatc caatccaaga ttcaagagaa gaaatcaaga cgcaacatgt 120
 caagacttca tataggataa gtattaaaag aatttttcaa aaaccaaata gcacagtttt 180
 gttttacaaa agaattttct caaaattntc taagctacca gagtgattac tctctagtaa 240
 tcgattacta gttatcagta atcgattacc agtgaccggt ttggttntca aaatgttttc 300
 aaatgattta taatgttcca aaatgattnt caagtagtgt aatcgattac actgtattag 360
 taatcaatt 369

<210> 21175
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21175

agcttgtatc ggacatctgt gtgaaaagnt atgaccattg gaatttttta tgagcttcca 60
 ttnttaaatt tcgagcctct caacatatta tgcgcccga tgcgacatcc gtgtgaaaag 120
 tcatgatcat tngaatttct cgagagtttc cgatgtttta tttcgagcgt attgatatat 180
 tataaccctg aatcggacct cagtgtgaca agttatgacc atttgaattt gacgagagct 240
 tccgttggtc aatttcgaat atcactatat gtgatgcgcc taaattggac atccgtgtga 300
 aaagttatga ccatttgaat ttctcaagag cttccgttgt tcaattctga gcgtctcgat 360

acgtgattng catgaatcgg acatccgtgt gaaaagttat gaccatttga at 412

<210> 21176
<211> 371
<212> DNA
<213> Glycine max

<400> 21176

ttcgtcttct tctattgtcc agtcttcttc tggcttcaat tcattagtgg gctgtccttc 60
tgtgtccaac atcttgggat gttcccagcc tttgatgaca gctatccacg ttctgctatc 120
cagtgattcg aagaaggcca ccatccttgc tttccaggat tcatagatgg ttccatccag 180
aatgggaggt ctgtacacta ggcctccttc tttctccatg ttcatacagaa ttcatctccc 240
tagatctcac tcagagattt ccagtgcccg ctctgatacc aattgaaatt ctgataccaa 300
tgccagatgt cccacaagat gtcacgacat cacgcttcag aacatgcaga ttatatattga 360
gagtatgaac a 371

<210> 21177
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21177

agcttttcca ttttttgcct gatgcctgaa atgtcttttt tgatgttagt ggnccatagat 60
gcacggaaga atttctccaa gaacaccctc ttaaggatcat ccagctgaa aatagacctg 120
agagcaagggt agtataacca atcttttgcct actccctcca gagaatgagg aaaagccttt 180
tgaaagatat gatcttcttg gacatcaggg ggcttgatgg tgaaacaaac aatatggaac 240
tccttaagat gcttataagg atcttcacct gcaagaccat gaaacttggg cagcanatgt 300
attagtccag tcttgagaac atatggaaca cccttatcag gatattgaat gcataagctn 360
tcataagtga aatcaagtgc agccatctcc ctaagagtcc tatcac 406

<210> 21178
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 21178

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aattgtgact tttggaaatg tatctatcga aatcagtcac tggtaatcga ttaaagtga 120

ctcttcattc tgaattttga anattaaaac gtttagaatg tctggtaatc gattacaagt 180

gttggtgaat cgattacaca agttttataat gatntaaaac tgttaaaccac aagttgtaac 240

ttttgaaatt cgaaatctga acatttttaa ctctttggta atgattatgt gaaaacttct 300

tgtggtattc aatgttctga caagcttttt tagtacttat cttgattgag tcttctcttg 360

attcttgaat cttgagtcct gaatcttgat cttgattatt ctagaatcat gattcttgaa 420

cttgattctt gaatcttgga ttt 443

<210> 21179

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21179

agcttgtttc ttatatgttc atgaaggaca aggcaaccga aggaactagt tccgctccgg 60

agtatgacag tcaccgcttt aggagcaccg tacaccagca gcgcttcgag gccatcaagg 120

gatggtcggt tctccggaag cgacgcgtcc agctcaggga cgacgaatat actgatttcc 180

aggaggaaat agggcgccgg cggtgggcat cactgggttac tcccatggcc aagtttgatc 240

cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300

tgagatccta ngtaaggggc cagtggatcc cgtttgatgc tgacgctatc ggccaactcc 360

tangatatcc gttggtgttg gaagagggcc aggaatgtga gtat 404

<210> 21180

<211> 467

<212> DNA

<213> Glycine max

<400> 21180

atctatgtat ctaacacccc tcaatttatt ggattttcaa ggtttgagaa gtgaaaatga 60

gaatggggta aatttggagc aaactctcac ctacacgag tctatatcat caatctaaac 120

ttgctcaaac tggttttacg acgaaaattc taccgaatca aaatttgact cctcaacacc 180

caattttacc ctacaaatgg ctcttgccctt catttttggtc atttggtttt ctctcttgca 240
cagcccaagc ttcctcataa gtcctaaatg acatttcaaa ctaggattaa ctccctgtaa 300
cctccaaata ccactaaatc cagacttggc cttccaactc tcacagtctc actctatttc 360
cactcataac actacattct cactgtctaa ccctatgtta actctaccct tcatgcctag 420
cagttttcca tccacaattt cagcacataa acatcacaag catcatc 467

<210> 21181
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21181

ttcttggtgtt cttggcaatt tctttaaaac tagtcactta aaaagttgtg acttttgaaa 60
aaatcttcag aaacaagtca cttgatgaat tgtgactttt ggaaatgtat ttttcaaaat 120
cagtcactgg taattgatta ccattaaggt gtaatcgatt acacatcaac agatatgact 180
tttcattntg aattttgaaa attaaaacat ttagaagctc tggtaatoga ttacaagtat 240
tttgtaatcg attacacaag tttaaaatac tttaaaactg tttaaacata agttataact 300
cttgaaattt gaaatcttag cgttttataa cactggtaat cgattactac cttctggtaa 360
tcgattacca gagagtaaaa ctctttggta atgattctgt gaaaacttct t 411

<210> 21182
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21182

gaagctagat cttagctaca catacctctc taatatgctt atctcacctc cttgagatga 60
gaagctagag cttagctaca caccctata atagctaagc tcaccccat gacaaaatac 120
atgaaaatac aaaaaaaaag tccctactac aaagactact caaaatgcct canaatacaa 180
ggctaaaacc ctataatact tgaatggcca aaatacaagg cctaaacgaa ggaaaaaacc 240
tattctaata ttacaaaga taagcgggct catacttagc ccatggactc aaaacctacc 300
ctaaggctca tgagaacctt atggccttcc cttggatctc tggcccaatc tacttggagt 360

cttctatcca atgcccttgg agggtaggat tgcacacac atcac

405

<210> 21183
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21183

agcttcttat ttttttccta taaatagggg aaggaggga gaataaaaat gttcaaccct 60
cctgggtattt gagattcact taaaattagt gagaaaaatt gtttccgtga agaaaattca 120
agccgaggcg cttccgtaac gtttccgtga cgtttccgtg ggtgattttg caaagattnt 180
caaccgttct tcgtcgttcg tcgttcgttc ttcggtcttc aaccggtaag ttcccgaat 240
cgaacttttc aattcattct atgtaccctt agtggctctc atttgtttcg cgtgctttta 300
ttttcatttc atttactttc tgtacccctt tatgacgtgc gttagtcatt tatttaagtc 360
attatctcgc ctaatcgaaa aataaaaataa atttccaccg atcattcgta ttg 413

<210> 21184
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21184

ctatagaaca ctcacgcttg ttganatcca tgggtttttac atagganaca gnatctcata 60
aattttatcc tttttacata gngttctaga gcaacaatac tctgttttgt ttataatgaa 120
atctggaacc aattctaaca ctagcaagaa agctccaatt ctaggagcta tggggaaatc 180
ttagtgctgt gcaagaaaca aggagggttc atgatgtagc ataccgaatg gagggattaa 240
cagaaaagtt aaaacttttg agaacttggg accacatcag aaaaccaaga ctgcgacttg 300
aggatgagga agactggaga gatggttagag cgcataatgg cttcccccaa caggggtccc 360
aaaacatctg cagggcattc agagggcaat gcagagcata atac 404

<210> 21185
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21185

tgtttttatga tgaatcaaca atgaaacaaa gggggggnga tgattacaan gangacaaca 60
caagaagaag acaaagggga ngaacaaaaa gctcanaaga tcaaagaaca actcaaggga 120
atcaagaaca actcaagagt ncaagaatca agatgaattc aagactcaag aagaaagtct 180
acaatcaaga atcaagattc aagattcaag atctcaagaa tcaagatcaa gattcaagac 240
tcaagattca agaatgaaga aaatactcaa tcaagataag tattacaaag gtttctcaaa 300
actatgaata gcacatgagt nnttgacaaa acctttacca aagagttttt actctctggt 360
aatcgattac catattggtg taatcgatta ccagtagcaa aatgag 406

<210> 21186
<211> 144
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21186

ctnntgaatg ggctctattc aatgnnngag ttgacaagaa aatatcttct ttatctgtta 60
tcatacacat gccacagtg gccaaagatg cagtgggtag atctctgann aanmcactc 120
atgataggat acctcnncaa agtg 144

<210> 21187
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21187

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atagttgttt ttgagacaat gacagattta ttcaggagtc tctactttta ttgattacca 120
tgtgatataa tcgattactt ctctttctgt aagtgattca gatgtgaaca aagacacttt 180
aatcgattac tttgagtatc taatcgatta cattgttctt gagttgtntc cgggggttng 240
gaaaaacact ttaaacgatt aaaaagataa tctaactgat tacttcattg aattagtcaa 300
ttacttcttc aattatgcaa gggtttgctg acaggattga tcgggtggta tctatctata 360

ctct

364

<210> 21188
<211> 131
<212> DNA
<213> Glycine max

<400> 21188

tctataatac tcagcttgaa atcgattctt gagaggagtt gcattacttc tttattgcct 60
ctgcatgtac tagaatctgg ccttggcttg aagctattgc atgttttagga acttctagag 120
agagaaacgt c 131

<210> 21189
<211> 208
<212> DNA
<213> Glycine max

<400> 21189

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aacagaatgg agaaggagga aagggtgattg gaaacgccac ttcaaggaga agatgagtca 120
agaacaagct caccatcata ggaagtcatg gataagagtt tgaaggtagg agaaaatgag 180
tggatggaga gagagagggg gggggggggg 208

<210> 21190
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21190

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aaaaacgtca tttcttcttc tttctttctt ccaaagccat ttctaaagtt ccaagaactt 120
tctccatcac ccacaaccac cattagccac cacaaaccat cgttgttctc cacatcgaga 180
ggaacccttc aaccgaagcg gaatcttcca acttggcttg cggtttcggt agagaacgaa 240
accctaattct gacctttcat tttcttttga ggtaaccatg gttctacgct tgtttcttgt 300
tagtttcacg ttgtctttgc atcttttctg actttggaac cgccattgta tgtcttatgc 360
ttcctttgaa aaacttttga gaaagagact ntgtaaacgt tatcctttca tgaaatgcat 420

gttatttttcg taacctacac tgaaccccg tcaca

455

<210> 21191
<211> 371
<212> DNA
<213> Glycine max

<400> 21191

tttctttttt gttcaattat gagggtgctg atatgatg cgcctgaatc ggacatccga 60
gtgaaagggt atgaccattt caatttctcg agagcttcg ttgttcaatt tcgagcgtct 120
cgatatgtga tgtccctgaa tcggacctcc gtgtgataac ttatgacctt ttgaatgtct 180
cgagagcttc cgctgggtcaa tttcgagcat ctcaatatat gatgtgcctg aatcaaacat 240
ctgagagaaa agtatgacaa tctcaatttc tcaagagctt ccgttggttca attccgagcg 300
tctcgatatg tgggtgtgct gaatctgata tccgagtgat aagttatgac aattttaatt 360
tctccagagc t 371

<210> 21192
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21192

ntcgagaatn taaaattgtc ataacttttc tctctgatgt ccgattcatg cacatcagat 60
atctagacgc tcgagattga acaatggaag ctctcgagaa tttaaaattg tcataacttt 120
tcactcggat gtccgattca ggaacatcag atatctagac gtcgaaatt aaacaacgga 180
acctctcgag aaattcaatt ggtcataact nttactcgt atgtccgatt caggcgcata 240
atatattgag aagctcgaaa ttgaacaacg gaagctctcg agaaatttaa atgatcataa 300
catttcactc ggatgtccaa ttcaggcgca tcatatatcg agacgctcgt aattgaacaa 360
tggaagctct ggagaattta aattgtcata acttttcaat cggtatgtccg attc 414

<210> 21193
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21193

tgctttttgc atgagaacaa ttctcaagtt gtggtaccaa tcatcataat tggctccgac 60
tagtttttca gattcaagaa taccacgaag cgataagcga tagagaagat atactgttga 120
ttaagcacac aacaaaatat aattatgtca gagcataatt tttcaaacct tttaaaaaat 180
ataaaaaatat taatgatatt tctaataata atattgaaat gtaagagata cttatttctt 240
ttaagtggat catataaagc ctcttacaaa ttatgagtga gccacttggt tatcaagttg 300
tttctcatat acattataag acaatgtatc atatacattt tcanatcaaa ataaaaaata 360
ccatatacaca ta 372

<210> 21194
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21194

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ttgtatttat tctatttaga ttgttttttc tatgttttgc ttttccgtaa tatctttag 120
tggttaaagc gtgtatatca gagaaatata tatgggatct atgatgggtn tcagagactg 180
cattatctat ctgtagtttc ttcaaaggag ttgaagataa tcgtaattga ctgagatctt 240
gcttggtctg tagttttcgt cgattccatt ttgatttttg ggggagaaaa ctatgcgttt 300
tgggtcacac ttgttggcaa aacatttggt taacaatcta ctatttcttc aagggtgcttc 360
atataatgggt attgcagtct tgaattgagt ctcttgagtt atcttgngaa atgatatttt 420
gaatacaatt gtaaattttg tgatgcanat aactaaataa tctgatg 467

<210> 21195
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21195

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agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120

ggaagcggta tgtgccggct agttactcaa aggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
 caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggg ttgactaatg 300
 atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatntg cttcaciaag 360
 caatccaagt ggagcaacaa tt 382

<210> 21196
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21196

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 ttccgttggt caatttcgag cttctcgaca tattatgcac ccgaatcgga tatccttggt 120
 aaaagttatg actatttgaa ttttccgaga atttccgatg ttttaatttcg agcgtatcga 180
 tatattataa gcttgaatcg gacatccgtg tgaaaattta tgaccatttg aattttctcaa 240
 gagcttccgt tgttcaattt cgagcttctc gatatgtgat ttgcctgaat cggacatccg 300
 cgtgaaaagt tatactaatt gaatttcgca agagcttccg ttgttcaatt ttgagcgtct 360
 cgatatgtga attgcctgaa tcggacatgc gtgtgaaaag tata 404

<210> 21197
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21197

agcttcttgg attataaaca tgggaccaac tcattttatt tcaaaaaaga agtcgtatct 60
 agtcaaggct ttagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120
 gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcagggg cggagtangt 180
 gtctgccatt gccttggcct tggctaacaa tcggggaagt tcttgactcc cgttcaagggt 240
 aagagcaaac cgatccatcc acatgggtgc ctcttgggtg aaagagtcga tcacccttcc 300
 tctagcctct ttttccgctg atacttgggc atattcgtcc gcaatcctat gctcgtgggc 360

cgcggtctaga cctaactctt cttggtactt ggcgatgata gct

403

<210> 21198
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21198

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actgtcttct tcccgcgatg cttcttttat gtccgcctga gtgggcttat agcctaaacc 120
atacttccca cgattccctt gggtttttat cagactagtt atgccgccat tgtctttgcc 180
taaaccatc ccggcttcat aaccgttccc caacataact cgggccatca ttaccgccgc 240
atcggacaga caaggttgcc caaagaggga gtccacggag gaaatgctga ccacctcaaa 300
agactggaag gcggtttcta acgattcttc tgcggcttcc acataaggca tggaggatgg 360
gcagcttacc aagatatctt cctcgcctga cacgatgacc aagtgccctt ccactacgaa 420
tntcagctnt tgggtggagtg tagaaggcac aactcccact gagtggat 468

<210> 21199
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21199

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aaaaaaactt tattttaaaa ttcggtntag acctttaaat gtgttgggct gccctgcata 120
ggtttaagag tgggtggaag aaaaaggggg acaatgacaa actttaatag tgaaaaaagg 180
aaggaaatgt aagggaagaaa ggaagagaaa catcgaggag aagaagaaaa aaataaggta 240
acattgtcat gtactcgaca aaagagaatg catacatact ataagtaatg agttnttttt 300
ttttctcttt atttattttt atcttanata tcaatttgat caacacgatt atgtgataat 360
ctcttctgat cgacagagtc ttgagggtcaa tttttgacct atgctaaaat 410

<210> 21200
<211> 304

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21200

acaattctag gcttgaaaga tggtccaatg actctntcgt agcttccaca taggggtgtag 60
aggatggaca actcactagt atcttttctt cccctaacac tataaccagt tgtccttccg 120
ccataaactt caatntctag tgaaacattg atgggaccac cccaacagaa tggatccaag 180
gccgacctag caggcaactn taggcgggggt ttatgttcat taattggaag gttatctggc 240
acgtttgtgc cccgatttga attgagagat cgatctctcc tctcgcatca tgttggctac 300
catc 304

<210> 21201
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21201

agcttcttgc gttccgctct tggtgctcag aanatcccaa aaacaaatcc ctcttattac 60
tagctatttt gaattcttta gttcctgaat atacaacctt caaattgttg ctcggtcccc 120
tctttgagaa tgaggaggat cttcatagga cttcatccag ctgatgtttg tngcanttt 180
catcatccac cacccttttc ttctgtgcct tctcacgttc attggtgtta aacctatatt 240
tatgccttct tcccttcatg tcttggttga tcacaacttt agctgaatct cccatcttca 300
gcatagtga atctcctatc ttattgtcac atgccacatt atgatggcct gtatctctta 360
tgatcgtagt ttccactggc tcaccttcac aatgcat 397

<210> 21202
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21202

agcatgcgtt gatgttgaat atcttatagc acttagcatc aggtggagt gataacaaag 60
ctgccaaagc tgcaacatac cttattatta attggagcat gtgttgatgt tgaagaacgt 120

aaagcactta gcttcaggtg gagttgataa cgaagttgcc atagatgcaa cattaaattc 180
 tgatgccgtt tgatttagtt cagtctctac aagaaattga attntttgct ccactgttgc 240
 cttttcttga aaacattntt cctcggttgt tgccatttct ttgtcgcatt nttcttctat 300
 ctctttgaat ttatcattta attctttcac cttnttcaac atgtctttnt tgcattnttg 360
 aaattntatt tattttttcaa gagagtangt gtcgtagttn ttctgtgaca atgtac 416

<210> 21203
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21203

agcttgtatg cttgtnttct accttcttct catagtagaa caccggtaac gtgtctacta 60
 tcattgctat catctccctc tccatcattg ggggcgctac ttgagctgcc agatcccttc 120
 atctttgggc atattctttg aaagattcat gctccttctt acacatgttc tatagctaca 180
 ttctatccgg aaccatataa gaattgtact gatactgcct aatgaaggca accattaggt 240
 ccttccaaga atggactcgg gaaggtttca tattagtata ccagggtgacg acttccctag 300
 taagactttc ctagaagaga tgcacaaacc aattttcatt ttttgagtat gccctatatt 360
 tcctgtcata caccttcagg tgattcttgg ggcaagtagt cccattgtat ttatcga 417

<210> 21204
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 21204

tggagatgat gcttcaatgg aggataagaa agagagaagg aggtgtcact gttattgaag 60
 gtataaaaga gggagagaag tggaaactttg aagtgtgtct cataagactt tcattcatca 120
 aagttacaac aagtgttaca catgcttcta tttatagact aagtagcttc cttgagaagc 180
 gttcttgaca aaacttactt gagaagctac tttgagaaaa cttccttgag aagctagagc 240
 ttagctacac acaccctgt cataactaag ctcagctcct tgagaagctt ccttaagaag 300
 attcctaaag aagctagagc ttatctacac atacctctct aatagctaag ctcacctact 360
 tgagatgaga agctggatct tagctcacac ccctaataa gctaactcac cccatgcgaa 420

aacatg

426

<210> 21205
<211> 355
<212> DNA
<213> Glycine max

<400> 21205

ttcttgtttt attttaaaac caaggccacc atcttttgtg caatttgatt gcatgttgac 60
tttggttagca tgaaacatct catcacataa gaaggaatag cttgcaccac tgactttatt 120
aggccactca tcctgctttt gaaaacgtct tctccttcca acctttcagc ttcttccaaa 180
ctctatctct agcaaaatta aacacttgag tctttgatct ccccaaatg gttggaagac 240
ccaaataatt tacatgtctc tccactgcct ttaccccata acttatcaag ttcatcaatt 300
ctggtactag aacacatttg gatacaagag agctaagatt tctctagatt gatcc 355

<210> 21206
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21206

tatactcnct ccatcccata ataatagtcg tgtaagaaaa taattattgt cccaaaataa 60
ttgtcattnt agctcttcaa tataatatta attgtttttt ttcacttata tcccttataa 120
tattaatgat atggactaca aaaactaaaa atgaattaat gatgataagg ttaattttgt 180
aaaattatta ttctttttca tttgcttatt agttcttctt ggtctgagta aacaaactgg 240
tatgggacga caattataat gagatgaagg gagtataaac tctcatccgt ggtgcataca 300
gacacacaat ttcagttcaa tgcctttggt tcctctttct taagatggta ttggagccta 360
tcctaaatct attaccgata acctaccata ttatccatgc accanacca aaaagtactg 420
ggcgtg 426

<210> 21207
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 21207

agctnttgta gattctgggt gntctttttac tttcatatgc aaaagtgttc agccccaaca 60
 taattgtttt cgaagtaaca taataactaa acctaaaact atgtttggag acataataac 120
 caatgacaca gaaacaaaaa attttactat ccaattatct ataaactgtg atatctttga 180
 caacaaaatc tttataaata aagcagatgt tgtagattta caaccagcca aagaaaaaat 240
 gattntagga ctcaatttta ttgtacatga taatagatca atcactatta ctaaggatta 300
 tntattgatc tctacaaatt cacagatgtc accaataata gatgaactca catcagagtt 360
 gtgaacaaag catggtggta cccctattaa tgtaataat aaatgccctt gtgacac 417

<210> 21208
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21208

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 aatataatac tactatacga ctattaaagg agtgtgtgta agaaaataaa taaattaatg 120
 tgcacaagag ttgaacacaa gatgttttta ttgagggtat tcaactttac tagttgactn 180
 taatcgatcat tgttgccctg tttagagtta gatgcttatg tgaggaaatg ggagatattt 240
 tattttattta atttaagata aagtctttcc gttgtttact cttgaatctt gatcaatgat 300
 aaagaacaaa tttggaaatt cgaagaanaa gtaccacaaa cacctttntt tcgtgtattg 360
 gattatgatt taaaaaaatc tggtaataata atgtaatat taattaagaa ttttaggaat 420
 ttttttanaa agttaacaaa atgaattnt ataactntaa aaaaatcttt agatattaaa 480
 a 481

<210> 21209
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21209

attgncttat catatgaaaa ttatatagtg attacattnt acacatatat actataataa 60

tgagtatant tttaaaaata aagaatctag gttcatgaat cgcaaacaga ttcctaaagt 120
 atacttaagt aaatatatat catatacaaa attataatct aaaatgagtt gtcgtagttg 180
 tatcattaaa taaatttata aattttatact acaaatcagg atcttatcta tatattccaa 240
 acatgaatga atatacacta attatatatga aaatgcaaac tacaaggcat tcaaagcaca 300
 aattaattca atatttatat cacaatacac caaaattcaa ccaaaaatta ctgcataata 360
 atttcaata 369

<210> 21210
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 21210

catgaaaaga cctatgccct ttcttttaac ttctccaaat ggggagtctc aacagccttt 60
 tgctttcccg gagagtagta gagtcactct gaccttcctt ctcttggcac ataatccttg 120
 ggcttgtcag ctcatcacca ctcttgggga gtggacctga gcaaatatca atctttccct 180
 tgcctgagaa tcctcatgga taccaagctc taagtcttta gagaaagcct catagaactt 240
 gggtgaatcc tccttgggtct ctgtcattac atagaacagc tcaatgcact tcttgaccaa 300
 gctcttacgg atgaccttca agatcttgat ctgggtgcaac atttcatctt gaaatgctga 360
 gtgggagatc ttcagaatca acaatacccc ttgac 395

<210> 21211
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21211

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 caaaaaatat tattaatatga gctaattaag atattaatat aaaataataa tgaaaaaatc 120
 ttgctttcta attttacgac aattttaaaaa attataataa gtaaaatata agtcgcatat 180
 ataatttaat aaactattaa tttggccttt ntaaattttt atttgacatt gattntgctt 240
 ttaattttta gtgagatgga gtgagtcctt taaacattga aaagtattaa aatctttttg 300

tgatatggag taagtctttt attntaatta tgtaagtttg ctctttacat ataatagaaa 360
 tggtttttct catatatattt ttttatgaaa tgcgagatga gtg 403

<210> 21212
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 21212

tatataacac tcaagcttgt gggaagacac tgatcgaatc atcatcatca ccaactcttga 60
 tacagctctc tctagacgcg tactttgcac gcttccttcc gcacagctat tcttgcaactg 120
 cggtcgttgg ctctctatgc tctcgggttg ctctctcttc ttacctcct acggtgcttg 180
 atataacttaa agatggtaaa ggcggagtgc ttgcatcccg tatgggttaa ctacctattc 240
 gctccgtgga tatcgtggat tctattgctt caatoggagc cattcgtggc gccaaaca 300
 gcaacctact tggttctgtg gaggggtgtc acggtgccgg tggtagtgct ggacgtgaag 360
 atctac 366

<210> 21213
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21213

atctnatgta tgaagagttc aaaatgagta tgatgggaga attgaagttc ttccttggac 60
 tttaaatcaa gcaagcggac gaaggaatat gcatacatca aaccatgtag tgaaaaaact 120
 tctgaagaag ttcaaggtgg acgatgcaaa gcatatgaaa acccccatgc atccaaccat 180
 tgtacttgga ctggatgatg aatcaacgaa ggtggatgaa aatacatgca gaggaaatat 240
 gatattcttt ttgcatctca ctgcgtccag ccttaacatt atgttcagtg tatgtctcta 300
 tgttagattc caaaaggaac caaggaaaat tcatttatat gatgttaaac gcatatttag 360
 atatttgatt gaaacttcta accttggctt ttgctttaag agagaaatcg aatac 415

<210> 21214
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21214

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 agtgctcagt agaaattccc aacaaaggat tttagccctc cattacaagg gagtagcttt 120
 tagaaatatg agaagggttt tagagaaatt accagatgac aaagtagtgg ggatgtctcc 180
 tccacttcta agaacctaga aaataaatct aacacctaga atctacctaa aagttaggac 240
 ctttgcttcc ttgctcagct tttcctctgt tctttgcaca caattcatag tcaattcaaa 300
 cctctttcac attgtcatat tctcttcacg ctttctcttt ntttctgtgc aaatcaggct 360
 taaaaatggc tttctgacct cgaaggcgcg cttagcgcca tcctcgcgct tagcgcgagt 420
 aagtgatatt 430

<210> 21215
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21215

caattgactg tgtgancttt ganaccacct aggaaaacgc gaggcttggc agccatttgt 60
 ttgcgacttt tatggaaaac cgcgaggggc tatgggggat ttgcgcgcct tcgtacagcc 120
 ggagagggcc aagaatgagc acaaaaggcg aatatgaaga tagccacctt ccgcaagtcc 180
 ttccagatcg aaccgtggga agaaagaacc tctgaaagaa agggagacat gcaaccaact 240
 aaacagtaca caagcaagcc gagaaaggca cctatcatga taatcataag cctagtcggg 300
 aaaacatgag cgatccaccg cagcttgaat ccacatcaga gcaaattgaa acaacgactg 360
 gattgtgaat gtcgcctgac atatcgcatg gagacggctg agtcatatcc tcacctcgga 420
 aattttgaat gacatcg 437

<210> 21216
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21216

ttcttttttat taaaaatcaa taaaaaaata ctaagaatat atattagtgt acttagtggt 60
gcgttgattt tatacaaata aatcatagaa attcaaaatt atttattcca gcattatcca 120
gctcacctta naacgaatta atgataatat aatttattaa aaatgaatac ttataacggt 180
ataagatggt tattcaacta attaaaaata acaagtcaat aaaaataata acaatagatt 240
ggttctacca gatcggcgct acctccgcgc aanaatgtcg atcccacgca atctgcaaca 300
attacaatgg ttcattgtata gatgttggtca tcaacttttc aacaaagatg agtcat 357

<210> 21217
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21217

ctntanatga gcttcacctt tctcgcgact atcatgttgt ctgtctcgtg tgcttttagt 60
ttatcctana tttatcaacg attagtcaac acaaagttac catctcaact tcaaaatatt 120
ttctgcttta aaaacacatc aaaatatatg ctactttaga aaatcaagat caattatatt 180
tattttaata atatttttgt ttattttctt agtatagact atatatatct ttaatcagaa 240
cattatgaag tatggaggat aaaattttag ctntgaatct ttaacacatt tacatatcca 300
aaaatatatt cattattggt atcttatgtg aaatatnta ttaatttaca atattatact 360
gtaactcctt taatgaaaat attntaataa aagaacatga gaccagctta ttaaaaatta 420
aaaaatggaa acttatcaca cttaaccaag ctagtcaaaa caaatatta 469

<210> 21218
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21218

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gttgtgccat gttctcagaa tggtcaaaat tataatgctc aaaatcacca ataacagaat 120
gctcangatg ctcaaaaggt actaaatgat gtctaactaa tcaatgaaat gtcctatcta 180
tctcangatc aaaggggtgt aagtttagat gattgcctct agtcatacac tatattcagc 240

atgcacaact agttgccttc ttatgcaagt aacaatgtag gtttgaacta cggctaccat 300
 taaatgatat ccaaattgact tgaaattntg tgagcaacct tataaaatga tgagaagata 360
 gcacanaaaa tttcaaaca aaattcaaag tctaactata gaagctaana atgataagtt 420
 aag 423

<210> 21219
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21219

ccttccctgg ttagtgtnnt ggtttgtgtt attggtggtg tttggaattg gatgatttag 60
 ggggtggcctt tatggatgat tgagtgttct tggttgatag ggtggtgggt aatgaaaagg 120
 gttaatatg gctgagtatt gatattgttg agctggtgag aaatttggcc atgtaggaat 180
 agtagtcata acatgggttc ctccttcctt ctatttctct ccatttggcc caggcttctt 240
 attcatcaaa gcaggataat caaattttcc tctcttcaaa cccacttoga tcctttcacc 300
 ggtgaaaact aaatcagcaa agcttgaagg tgtgtaaccc accatcttct catagtagaa 360
 caccagtaac gtgttcaact tcattgntat catctctttc ttcgtcatnt ggggcgctac 420
 ttgagttgcc agatccctcc acctttgggc atattctttg aaagattc 468

<210> 21220
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21220

agcttggtcg tatttgagtc cacggaggaa atgcttacca cctcaaaaga ctggaaagcg 60
 gtttctaattg actcctctgc ggcttccaca taaggcatag aggatgggca gctcaccaag 120
 atgtcttctt cgctgatac gatgaccaga tgcccttcca ctacgaattt caacttttgg 180
 tggagtgtag agggacaac cccactgag tggatccacg ggcgccccaa cagacagctg 240
 taggggggggt taatatccat tatttgggaag gtgacttgac aggtgtgagg gcctatctgt 300
 actgggagat cgatctctcc cctaacctct cggcgggtgc cgtcgaaggc acgaaccacc 360

attgaactcg gctntaagtg ggaagcattg aatggtaatt tctccaaagt gctctt 416

<210> 21221
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21221

cttcgattca atctatgtac ccgtagtggt ccacattggg tntcttgcta ttttattctc 60
gttntgttta ctttgtatac cccctcttga cgtgcttgag ccattntact taagtcattt 120
ctcgcttaac ttanaaataa aataaatttc caccgaactt ttgaattgta ttatccatta 180
acttcgggta aaataaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240
agaggtaaaa aataatataa taatcaaaaa gacatcttta gtaaaataaa gcgaanaatc 300
aatcggggcgt tttctctttg ggatttctca ttcttaatcg aattgattaa taactaaagt 360
gaaactaaag gctaaaatca attcgcctag tcaagctcgt ccataanaat aggcttttga 420
agtttgtcat ttcattntct cactaagtaa aatggatca 459

<210> 21222
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21222

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ggctttgatg ttgatgctct gccagattct cctttgtgct aagcgtgctg aagctgcgct 120
taacgggtgga attagggtac caattaaagc tacatcttga aagggtacca attcacaccc 180
cctcttaatt tgtgagttcc atcatctttt tcaattggta tcagagctac atcttgtaag 240
ttactcaaga tcacaatttt tctaaagacg ggctccaaac aaacaatctt taaatcaacc 300
tcctttgttt gagggagaac attnttcctt tcggcaaaag agaatgaaaa tctttattta 360
attagttgat ctcgatgcat ggaatgccat tgttaaaggg tcctttatac c 411

<210> 21223
<211> 410
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21223

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ctaaggcaac aatacatttc ccaatgttaa aatcacctaa ctaggcacac aaatgggtga 120
ttagaccaag agaatacaaa atttaagcac tgaaagaagc attgaacaca agatacaaaa 180
tcaattagat atgaaataat tgcacagct gtccattaga aatccccaac aagggtgttt 240
agccagccat tacagacgaa accctaacaa taataagctt acaaaaccta agcatctctg 300
caaaagttgt tcctcttgct gcctctagag ctcttttccc gaaataagca ttgtggcgtg 360
atgtggaata ttgtgccctg gccttcttgt tgttggttta ccctaattct 410

<210> 21224

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21224

agcttggttaa gttcccagct tggacaagtg ttgccagac tgtttctgct aagttgtcca 60
aggaggacat attttttatt ttacaggtga agtttgacat gtcaagtga taaaattcct 120
atatttgata attctgtcct tttctgatcg ttggaaaacg cattaaagac atgtgtttcg 180
tttgtctttt tccgcaggtg agtgcagcac acacacgtta ctcttgctta catgtcactc 240
gaggagtgga cacatattgg agacgcggtg tgtggtgcaa attttcaggg tgtcatttca 300
gctcccacca attaccanag agtcgtacct ccacttaaatt agagtgtaca tttgggtttt 360
gatcaccacc attttntaat tcctgctntg aaatc 395

<210> 21225

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21225

tgtgagacac tagannataa agtagaaacc atgttntaca cactatataa atacatagta 60
tagtaatata aagcttggtca atatagctct cctttgctta aaacttattt gtctttgatt 120

aaatntagac ttagcctata gaacttgaga gtgtaaattt aagcatagac ttagtctatg 180
 cttaaatttt cattgtggct gaacaactga naatatgtca caatgaaaat ttaagcatag 240
 tgttgtaaatt ttaagcatag acttagtcga tgcgatgatcc tttntttctc tgaataacct 300
 tagcataatg tttaatagca cattaatctg tgtaaagctg cttttttctt ataacatttg 360
 aagggctctgg ctacattgag cacataaata tactgttgta gtagacttca cctcactgng 420
 aagaccccat aatctacgca naaataagtn tgattctgca tttacta 467

<210> 21226
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21226

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 ttgttcaatt tcgatcctct cgacatatta tgcacccgaa tcggacatct gtgtgaaaag 120
 tcatgatcat ttgaatttct cgagagtttc cgatgtttaa tttcgagcgt atcgatatat 180
 tataaccctg aatcggacct cagtctgaaa agttatgacc atttgaattt gacgagagct 240
 tccgttggtc aatttcgaat atcactgtat gtgatgcgcc taaattggac attcgagtta 300
 aatgttatga ccatttgaat ttctcaagag cttccgttgt tcaattctga gcgtctcgat 360
 atgtgattcg cctgaatcgg acatnccgtg tgaaaagtat aaccattnga atttctc 417

<210> 21227
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21227

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 agagttgggt ctagccacgg cccacgagca tagaatcgg gatgagtatg cccaagtata 120
 tgcggaaaaa gaggctagag gaagggatgat cgactcttta caccaagagg caaccatgtg 180
 gatggatcgg tttgctctta cttgaacgg gagtcaagaa cttccccgat tattagccaa 240
 ggccaaggcg atggcagaca cctactccgc ccccgagag attcatgggc ttctcggcta 300

ttgtcagcat atgatagact taatggccca cataattaga aatcgtagg aaacttgtat 360
 ggtctctcag accttgacta gatatgattt cttnttttga aataaaatga gttgggtccca 420
 tgtttctact ccaaaaagct tgtgcanatc anactactcc tacatctcat ctctagcatg 480
 cattttctt 489

<210> 21228
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21228

ttcttctatt tcaataattt agattcattt attgtttaca aattaaacta cgttttcata 60
 atgtagtact ttatactttt cacacaaatt atttttaatt tataattgat tttattattt 120
 aaattattag tacatttatg tattgtaaaa attaatcaat taaaaattag tgcatttttt 180
 tcacacatta taattgattg ttttttgcac ttagttctca ttggcaaagc tttctaattg 240
 gaaattgcaa attttttaggc gtttttgtgc tttctaattg gaacatttta tgctttctac 300
 actcatcatg tataaaactnt tttaccacca aaagttgtac tccaataaca ttttccaatt 360
 ntaaccattc gaatacattc aagtgggtgc aattcttat 399

<210> 21229
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21229

tgatcattgg gccaaattca caagtcttag gtaggatgct ttggttttat ttgaacctct 60
 taattgacct gggttcgctt ttgggtaatg ttagactatt ggcaagtgc ccaaattatc 120
 acaagtagta aagttaaagt agaagtctga gtgtcgagtc cacagaaact ttatttgtac 180
 ttaggtatgt gaatatttaa ttagtaaatt aatttaaaga aattgatttg aaaagggttg 240
 gagaaaacag taaaataaat tggcagaaaa ttaaaataaa caaggaaaga aattaaacat 300
 gaatttaaatt taattaatta aaacagaaat agatgagaaa aaccaatatt atagaagtta 360
 aattcagaag atgagaaagt tggggactta gcctaagaga gctactcttg atataatatt 420

aatgaatttt ctctaattat ggttattcca attntacacc tacacctact catatactct 480

a 481

<210> 21230
<211> 374
<212> DNA
<213> Glycine max

<400> 21230

atcttttttt gtctaagacg atgcattcaa agaagtcaac tacaacgtca gtcagaatca 60
tcaaggattc tatcaaggag gtctgccaag gtactatcaa caacgaaatt tctcaciaag 120
ccaatgttgg agatcccatc cagggaataa cttcaacaaa aaccaatgat gttcatccaa 180
tagacctccc acacaaggcc caaatctata tgagagaacc accaagttgg aagacacgct 240
gacacagttc atgcaagttt ccctgtcaat ccaaaagagc actaagttag ccatcaagaa 300
tttgagggtg tatgtggggc aattatctaa acaactgact gaaaggccca ctgtaacctt 360
tgttgccaac actg 374

<210> 21231
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21231

atgtgactct tcacattnga atttgaattc ttctgttcaa aggcaactgg aatcgattac 60
caaaacattg taatcgatta cagctttttg aaaataattg gaacgttgca aattcaattt 120
gaaaactttt tcaaaacaat tttgtacta gtaatcgatt acaacaatct ggtaatcgat 180
tactagagag taaaaactct ctggtaaaaag gttttgtcaa aaactcatgt gctattcaaa 240
gttttgaaaa actttgtaat acttatcttg attgagtctt ctcttcattc ttgaatcttg 300
agtcttgaat cttgatcttg attcttgaga tcttgaacct tgaatcttga ttcttgtctc 360
tagactttct tcttgagtct tgaa 384

<210> 21232
<211> 385
<212> DNA

<213> Glycine max

<400> 21232

attcttttcc aaacaaatat atattgaagc ggtggacacg acaagcaaga tgtgatacgt 60
acaatgataa tagtgggagg caaattgatg ttgacccatg gttggagagt tcaaattcgat 120
ataagcaatt atgtccaatg cttatgagat tgtccgatga ggcattctgac tatccggaag 180
catgttcttt agtttatcaa ggggtgttag agcttagtaa gaaagtggct gaaattcgat 240
tgaaccaaca accacatggc cctcgtgatt ccacacgtga agccacaagg tatgctatgg 300
agcctttggc atccaaagga attggatcta agaagagaga tggtaaaagg atgaataata 360
taaccctctg ggaattggac tgata 385

<210> 21233

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21233

tgctagttcc tacaaatgaa cactcgcgta ggagaggctg ttatatggct tagtctgttc 60
gcattttggc gctaattgatg aagatacatc ctacctttct ttgtcatgac cttttgtgag 120
tgagctttgg caatgactta nttctatgta taaagtggcg ctagatcttt cttctccgag 180
tgctctctta tatgtataca attgggggtt tagtaagcaa gtatctgaaa gatgcgggtg 240
tcaggatcat aatgatgct tgcgttattt ggattcatat gaataatatc catttagaga 300
atgtgaatat acccatttgc tcgttaaaat acaacattat ggcatactta gccttgacgt 360
aaaggttctc tagactaact atgggtttcta gtgtagagga gttctctatt 410

<210> 21234

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21234

agcttgtcta attaacctga aattgagaga naatgattat taaacacaca aaatggaagt 60
actaagtatt tatcacctat acttaataga aaatacttat aacactacaa aataaccata 120

aattggaaga gtttgataca atttatacaa gttttatgca caaaagttag tegtattcac 180
cgactaatac ataaactccc tgttttaatc gatttccagg ctattcataa tcgattacac 240
aagtcttttg agaagcttta agagagatac tcattttgat taccgggtcat ccgtaatcga 300
ttacacaatt cagttaagac catgtctagt ttttaggagt ctctattnta attgggttacc 360
aggtgatcgt aatcgattac ttcattcttg aaagtgttc 399

<210> 21235
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21235

cttaccctat ggcttgccctc cggatttcac tccccgtgcc gtccttgaag atttgagtca 60
agcccctacc ttcgaggggc aactcccacc ttatgacgat tatcccggtgc aagacgatga 120
ggaaggagat acccatctcg gccccctgct ccacctcaaa gatccacccc cccatgaact 180
acccaacca aacatagtct gccacgttcc atcttcaccc acaccgtaa tcgaatccat 240
tccttctgca gaggataagg gaaagattga tgcacttgag gagaggctga tagcggtaga 300
tggccttggc aattacccat tctcggtatct agcgaacctt tgtctcgtgc ccaacatcgn 360
tatccctccc aagttcaaag taccggactt tgataagtac aaagggacga catcgtccga 420
aaggcatc 428

<210> 21236
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21236

ttctntttgg tgtcgagaag aaataacatg tttgtcatca tcaaaaaggg ggagaatgtg 60
aatgtatgta tacatgatgtt tgatgatgtc aaagaagaat ctaacaaggc tacttcaa 120
gataagcatt tgcttcaaga ataattcaag attgcttcaa caaacaatc cttgtttcaa 180
gattcactaa agaccaagcc ttgccttaaa acaaagtgtc ttcaagacat gcaaggctct 240
ggtaatcgat taccaggaag tgtaatcgat taccgaaga cagggttgag aaatagctgt 300

tgaaaaaggt tttgaatttg aattntcaac atgtaatcga ttaccatattg tctgtaatcg 360
attaccagca acgaaacttt ggaaattcan attcaaaagt cattaaccct tc 412

<210> 21237
<211> 227
<212> DNA
<213> Glycine max

<400> 21237

tacatttttag atgttgacaa ggcaacctcg atatggcgct gaacatcggg gtacataata 60
tataaagtag agaaggccta ttttctgtct attagaaaca ttagacaaac ccctagcaaa 120
caacgaatgg acggatgaga cctgctactt cagctcatat tgagaaccgc atggccgtat 180
catggtgtat gagaagagac aatttatcgt ccctaattct atacttt 227

<210> 21238
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21238

agcttattgt atnnataagn ctcatccaac aaatgtttgt tgtctctaaa cagatatatt 60
tcttcacttg agcttgcgtc tgaagagtgt ggccgttaaa gcatttaatt cttgcattaa 120
atgcacatac tccttcatgt tgaaaaacca ttcttatgag ctattgtggt tatcactcaa 180
gtagaaaacc acttgcttta agtcagagca ggtatgtcac caaaagtgag tgtcttttga 240
tggtgttcga caactttcag atcttgaact tcatgtattc ttcatagaat tcgatagatt 300
ctaggagaat gtctttataa aacaaatctc atgacatgta tcttctagcg tctaataata 360
cagatgtaga tgtatg 376

<210> 21239
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21239

ntaggaataa cattaagaga accatgcgtg nggtataatt cattatccac atgttcaagc 60

ctatcatgtc acatatcaga acattcaacg tttgcaacaa aagaagaaat gctagatatt 120
 ttattaatag aaataagcat aataattaac ctaaacaatcc catcacgaat atagccttta 180
 ccaataaaaa cactatgtct agcaataaca actctatttg actcanaaac atccttgtag 240
 ccttggtgga ctaacaaaga agtaattaga aatgtgatag actctatcta aaataggaaa 300
 attccctaaa gatagctcta gcttcacttg accttctctt aacacatgtg tcatactccc 360
 attcccatg ctcaaatat gtgtgcttga ttcatgatat anagaanaca attgtgtatc 420
 atcacacaca tgaacattag ccgcggagtc cataatccaa tc 462

<210> 21240
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21240

ttctttgttt atgagaaata catatattca gagatgaata tcttgacctt caacattagg 60
 gggctaggta gaggccttaa atgggcttct attangaatt tgggtggataa atataacata 120
 gatcttctgt gtctgcaaga aactaaaaag gatgtgttag acaaagcttc gtgtcaattc 180
 ctatgggggc aatctgattt agactgggaa tggcagcctg ccttanatgc tgcagggggg 240
 ctgttatgta tttgggacaa caacaaattc catgttgatt taaggatttc agataaagac 300
 ttcattatgc tgggtggaat atggctacct caaatgcaaa gagttgcagt cattaatata 360
 tatgcccctt gtgatcatgc tggg 384

<210> 21241
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21241

ctaattntaa tatgatacat tattgaaagt tttagctntt aaatagtcatt tattataatt 60
 attgttttat ataataatgt aaaactataa taaacagaac ttggattata attttttaca 120
 tctacagtaa attctatttg taataattca tacacatata caagttaatt taaaccatta 180
 ttgagatatg gtttttatat tacctaaccg gcactagggt atacgagagc atcattctcc 240

caactcattg tgcaagttaa tcaatttcct ggtttttaac aaagattcaa tgaaaaatgat 300
ccatcatgaa aaagttcata tttaaaaatg aaccaaccgt attttcacaa atgagaaatc 360
tactaaagtt ttgaattaac catcaacatt gtaaaaactc aaatntgatn tgnngctgcta 420
ggatgctcac cgaacttata ttagccatca t 451

<210> 21242
<211> 75
<212> DNA
<213> Glycine max

<400> 21242

tcgcatgcag atcagaaggg atatatttct ttgtaatatg tcttcttcac ataacatgca 60
acacatttat atata 75

<210> 21243
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21243

agcttttatt atttgaagaa aaagacccat tccatccatt gtttaatatg ctaatgaatt 60
aaggaaaaac caattaatca tattaaccat ccattattca catttcacaa taactcaacc 120
catgcaatac atttaaatat attttttttaa aatgaataaa ttggattgaa gtatgaatgc 180
attgttttaa ttagacacat gaatcacttt cccaacttta ttcaacatcg acaatcattt 240
gtaataattt tcataaatcc cgaaacttta ataacctttt tattgtttac aaactgtgcc 300
cccatcaac taataagcaa tttacacact tccagctntg ttgataagat gtttggttg 360
aatgtattaa cagacaacgg atcgatgctg cttatttcat atcatctatc cgacac 416

<210> 21244
<211> 481
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21244

cgactggctg aacaagtntg tagaatatat gtggccgtat cttgtcttgt ttgtagttnt 60

aatatatgct ntaactcttc gagattaaca tctactatac taggccttttg attctccttg 120
 tttctaagct tgtttgacta tggagatatt ttttaatttat ttaggcaatt tgcaagactg 180
 cgaagaacat tgcaaaacct ataattgctg agcagattcc taaatacaaa attgattccg 240
 ttgagtttga aacactcaca ctgnggtcac tgcctccaac atttcaaggt tagtaagtag 300
 atccggataa gaaccttgta attgtccgac aatgtcttgt gaacagtgtt agctgttttc 360
 accgagtttc tattctcttc tattgcttac aaggggataa atatttgatg tnggatttct 420
 gcagtcagaa agacagaatn ttgaatctta acctttacaa caacaacagc aacgccttat 480
 c 481

<210> 21245
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 21245
 agcttggaca atggcagtga aatcttgcta aaatcctaga taaatctctt gtaaaacttg 60
 gatgtcgcag aaaagaacgt acttcccgca cagatgcgtc gtaaggaaga gaagtaataa 120
 catcgaatctt tgccttatcg acctcaatac ctctactaga gactgaatgc cctaagacta 180
 tacctccatg gaccataaaa tgacattttt caaagttaag aacaagggtta gtctcagcat 240
 cgggtcaagaa ctctacagag gttatccaaa catgcatcaa aggaagaacc ataaacaatg 300
 aaatcatcca taaacacctt catacaactc tataataaat cagaaaagat actcaccatg 360
 caccttttga aggtgccagg agcgttgcac 390

<210> 21246
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21246
 cgagtgatat tgtcacagaa tacacttgag gcacctctc catttcatcc accccacttg 60
 aattctagtc gcgcattagt taanaagggtg tatattttta cagcattgag gagaaataat 120
 aatcaaggga ataatcattc tattttcaaa ataataattg ttacagctgt catgaattac 180
 tagtagttag ttagaggggg taagaaaata aataggaaag actgacagag ggaggagaat 240

aataaatgta agaagagttg gcctctcaaa gagctaagtt aggattgatg cagctcttgc 300
tactttcatgt attntgataa agaactatcc aaggaagaaa agttngactt acgtgagctc 360
aaattggatg gactaatcac tagagcaagg agtaaaagat ttcaagaaga gtttgtcaag 420
agactaaatt ctctcatgga gggaaaagaa gaagaagtga cattcattta tttta 475

<210> 21247
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21247

agcttcttat cctaggetca tcttggtggt gaagctcctt cttccatggc ttactcccta 60
gtggatggcg tctcctctca cttcttctcc tttgtcttcc gctgcatctc catggtgtaa 120
aatcaccatt gaaggacctc attgaagctc aaagatccag cctccataga agctccacaa 180
gcaagcttcc atcactgagg acatggaaag gatgatgttc gtcacccttt ggggaatggt 240
ctgctacaag gtgatgtcct tttggcttaa gaacgctggg gcaacctacc aacaggctat 300
ggtagcatta ttccatgata tgatgcacan aagaaatgaa gtctacgtgg atgacatgat 360
taccaagtct aaacccgagg agaaacatct catcaactt 399

<210> 21248
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21248

tatgcagcgg aaatgtaatt atganattga gatgcccga gaatttctat ttccatgta 60
accatgcatt angtaccatg ttcaattatt attttttgtt gttgtgtgtt tttttttttt 120
agaaatgggt ttatgatccc aacatgggtg gctcatggtg cctaacacat gcaactaaga 180
atgtagtgtg aagtttcacg cttccctttt tttgtttttg tagaggaaaa cacaaggatg 240
agcaaacatg aaaacaaatg gtatgcaatt ttgcagatca naaagtttgt tgaacgcata 300
tgcgatgatg tgccatgact catgcaaaat gtgaggctgg aatatgataa cggaaaaatg 360
caggaacgat atgttcatta tgatgttatg aagagatgct tatgatatga atgcattnta 420

cggaacacgag agcccggaaa attatctctt cttac

455

<210> 21249
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21249

agcttgtatt ntccagggtt tgttttattt ctcatttcgt ttgatcactt gcatgtacta 60
gaaattgagg ttgatcagta gtgctataca ataccatata agttgcttct ggatcatttg 120
tcaaacacca ttacgtaacc tagtactctg cttaattaaa aaaaaaaaaat tgaggtcagg 180
ttatttaagt ttatttaaaa aaaaataggt ttttcttata taaaataagt aatttttata 240
atattttgat atgtttgttt taaattgttt tacttanaat aaatgttttt tttgtttttt 300
tttaaaacaa atactatcta cttcttataa aanaaaggct nttataaaaa gcactttttt 360
taattttttt tttnttagt ttaccctttt ttgttcttgt gacaatatgt 410

<210> 21250
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21250

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ccacaaatcg cacataaacc cacaatcccc tgttgccac ctccaactga gtcacgtac 120
tcccacgtag cccatatact cgtttctctc aacaccgggt ccccatcaat cctccaagc 180
ttccccaaca tccaagtaat tcaacattca aacagcacia actatcacag ccaagataac 240
agggcaaagg cagaaaactc tgcccaaaac accaaccaaa atcacagctt ttccactta 300
aagaccccag taacatttcc ttcggtccaa ttcgtaacc gttggatcga ctcannaat 360
ttactggaag tctctagtag ataagcctac attntgaccg ttgggatttg ctagcaaata 420
tccagaaatc attctgcact actctttcca c 451

<210> 21251
<211> 399

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21251

ttcttatatc aattcagatc aaattgaagt tagcttagct aaaccttggc cagcttagcg 60
gaccaaatta gccttagatg caaggggttg gcactaagcg cttgagactc gcgacttagc 120
gcatgaactt agcgcgagggc ttgttcttag caaaaggact atttttcaga aaaaaaatt 180
tctaagttat ttttcagtcc tttttccaag aaattgaaac ccttatgtta aacattcaaa 240
gataggctga tatgctccta tgtacagatc agacaacatg ttcaaaatga ttaatgcatg 300
anaaaciaag ataacaaaaa ttcaaaactg ggttgccctc taggaaatgc ttctttaacg 360
tcattagctt gacgctntta cctcactggg tgatcttat 399

<210> 21252
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21252

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ccacagagtg gtacctggag atatgtcgcg gtggtcagga gaccttgggg acgttaggtg 120
gggtgctatt gcccaaaacc aagcttgacc aatcccagacc caaccaggc atagtcagtc 180
agtgagaacc tgtgatgtac ctaaacaggc gagctcctgg cagtcaacag ataaaaggag 240
caaagactac aaagcatgga ggcttggtg gtggctggcc agctatgaac tttgattgat 300
atatgggata tggcctctgg taattgatta ccaaggggtg gtaattgatt acaaggctta 360
aaaatgaaga caggagacta aaatagtctc tggtaatcga ttaccaaggg gtgtaatcga 420
ttactatgct tgaaaacgaa gtcaggaagc taggggagct tctggtaatt ga 472

<210> 21253
<211> 399
<212> DNA
<213> Glycine max

<400> 21253

tttctatatc attttattaa taagaaaaac atcaattggt ctatacaatg atgagaaaca 60

tcaaaacatt atggattagc atagaaccta gacgacatct ttgcaaggac atgaaccatt 120
 tggttcgcca aaattcacat ttgagatacc tagtaaacga aggttattat tacaaaagtg 180
 aaaccaattht cgaatccata tatattggag cactactgaa gcaagtcaca aacatgtttg 240
 caatcagtct cgaaggtagc gttgttgtag cccaactcaa tctgtcttta gatttcctct 300
 gcagcaggga tgttttcagc tttgatagaa gtcttgacaa tacaaagtga cctccataat 360
 cacaaatggg agctttcatg gatgcattta cattacact 399

<210> 21254
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 21254

ctcacgcttg tatatccggt agtaagatga ttaagaacta gtcagcgatt cttttctatc 60
 aaaatatatt atgattatgt ttagagccat taatagcttg gtagaataaa acatacccg 120
 ttcttcaagc ttgttctggt atagccagaa gtggcagtag aatataatac ttgtaacatg 180
 tagaagttaa agaaacttgg tggtagctc taggtgcaga ctataatgaa tttgtaccac 240
 aaccgatcta aaaggacggt ctcatgcttc ttaagcgtta cccaaactga accttttaca 300
 ttggttgtag agcaactgat gtataaagta gatgtcttat atccatttgtag tttagctcgt 360
 atgcaaaaag tattgatttc tatcaaataa ttaatggat 399

<210> 21255
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21255

agcttatgat aatgaagttg ttacaaattn tatcttgaat gaaactgtgc caaaaataga 60
 tgtcatgaag ttgttacaat atataatgca ctttaataacc ttgcaaataa acttcagata 120
 atcttaatct ttggaaatgt attgatatta ggacaaatgg tcatcacata tgcaacaaac 180
 atatagccat cctaattttac tcagttacat gaagcttggt atgttcaaaa tatcacacat 240
 gcaaattgat gacaccttat agataatagc cttagaagtt gattatcatg actcanaatt 300

aagggtttca ccattacact atcatatcat ttaaccacaa cagagaattt aatacaaaagt 360
 cacactaaac ttgagttaca tcacatctac ttatggcact aagtataaac 410

<210> 21256
 <211> 647
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21256

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 tactcacagc cttgagggaa gaaaattgtc cttaccctt caacactttg annaatgtgg 120
 ttttttcata tatgttcnnt aaatgnnncc cacganatnn gtcttatnnt gtagattana 180
 gaaatgtcat ttcgaagaaa gaacgaaatg ataaatnttg cgcanagtaa gggggccaaa 240
 tgtaagtgtt cattggtttg cttgaaaggg ttgagggagc ccattgcaga tgcccgaatg 300
 ggcattgacn ccaagnnnac tcataatggc nncatggtga aagtttgaaa tgggttgttt 360
 tgcttatatt cangtctctt ttcatttann gatttnnggt ggtagccctt tgcaaaagtg 420
 gtcccatttt tcgataaacc cagcagggca cncctcctat attcatttct agcangcttc 480
 attcanatgn ngtagggatt tttgggaatt gatcccttat acggtcattg gcngtttata 540
 tgccacgata nnatccacac agaaatgcc a tgatccatcc cctcttcttg accaacaaaa 600
 ccggcaacga gaaaggaact ggagtggatt tgataattcc atttagg 647

<210> 21257
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21257

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 caaatactgc tcatcaccaa ataatacaat aataaataaa aacaaaagaa aaagaaatta 120
 atacttctct ccgagtgtct aaataccaaa tactgtcat caccaaataat ggtttctagt 180
 aagtaatttc accaactggc tgaacttaag attatgcaaa ttgctgaatg gtacaaagca 240
 tatctcacac gaaaagtacg aaaatagaaa tcaacggctg tccatcattt ccgtcaattc 300

tggttttcag tattctttta tttttttcat ttaatgttca accaanaaac aaagcaagac 360
 atantctcat atctttcatg gttatg 386

<210> 21258
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21258

tatacctgat gagaataact taattgataa tatatacggt tattttgtag ataagatctg 60
 gatttgatta tcacataata tatgtttaga acagtaatag attttaagtg tgattaaatc 120
 ttaaatttta aatgtaagat tagtcttata actaccacaa gaatctaaaa tttgtgaaga 180
 tcctttggag tcctactcta tgagctgtga actcaatggt tagattacag attcattata 240
 ttgcgaatat tcatgttgtg tgatggtcta caactgtacc tacatatgag gaaaataaat 300
 tagagatntc tttatcttct ctactcttat gaaatagatc ctttatataa tatgagacac 360
 ctaagtacat tatcatatct ttctctcata ttattcccag 400

<210> 21259
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21259

atctttgttc ctttcacgcg agccattccc ttgtacagtc gcctctgaaa tcaaccgacc 60
 tttttttttt aaaaaaaaaa aagtgcaggt tagttgcctg ggcaagcagc ccttgcacca 120
 aaatataaaa aatgaagaag ggagacgttt ttgcattcaa aaacttcttt tccccccatt 180
 caaaagcaat acccacggaa tttacgagtt tgcagcccta gggtcactat ttttcacatt 240
 ttttgattcc gttttgcgct tttattcatc accaacaagt aagtattcca tccttaagct 300
 ttctagctnt tcattgggtg attttgatct cctttcggtg ctttaaattg tgggaatgtg 360
 ctcaaatatg tggggcaatt ttggtttggt ttcttgcg 397

<210> 21260
 <211> 473
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21260

ntataagcgc gggctctggga gacgaaggtc aagtgttcgc gatttgcgaa gatgatgttc 60
cgagtacttt ggatttggtg cgaccatgcc ctcttgattt ccggctggga aattggcgag 120
tggaagaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttttaaaag 180
ctctatagtt gggcctagtc tttagagttt ttctttttgt taaggctttg tgtcttttgt 240
ttttgaattt ataatacgag gatctttctt catctgttcc tggctcttac ccattctcat 300
tcatttgcag gtttacttct ttttctgaaa cggcagatcc gatgacgagt ccccggaagg 360
tactaatacc tgnngaccgc ctatcgactt cgagcaagaa atgaatcana cggaagatga 420
aggaactgag gatgtgggac ttccccaga actagaaaga atggctgccc atg 473

<210> 21261

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21261

agcttcttcg atctattggg gaggctacat gcatgagatt gcacgtactt tgataataga 60
aagcttagct ttcagagcaa ttaataaagc aaaagcatta tagagagctt ctataaatta 120
tgtgaaggcg gtgcatgatt cgtattaaat tagacaaaga aagatcataa agatgcatct 180
tcgattggct gaatgattga ttgtaagggc tcgatctgtg acatatcatt ttgtgtgaga 240
atgatttttg accaggaact tttggagaag aggacttaag tgggattcaa taatagaccc 300
tctttattgc tgaaatggat atgtnttttg gcaactggaa agatagataa atggctcaaa 360
gtaaaaagga gtagtcttaa ttacta 386

<210> 21262

<211> 355

<212> DNA

<213> Glycine max

<400> 21262

catgcaacaa ttgttagccg tggctatacg agacatcttg ccaaacaag tcaggttcac 60

cataactcgc atgtgctttt tcttccatgc tatatgtagc aaagtgattg atccagtaat 120
 gtttgatgag ttggaaaatg aggccgcaat tatactgtgc cagttggaga tgtattttcc 180
 ccctgctttc tttgacatca tgattcactt gattgtgcat ctggtcagag aaatcaaatg 240
 ttgtggctct gtttatctac ggtggatgta cccggttgag cgatacatga agatcttaaa 300
 agggatatca aagaatctat atcgccgga agcatctatt gttgagaggt acatt 355

<210> 21263
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 21263

tatctttgtt cacaaaagtc acttaaaacc gttttaagggt ccaacgcctt aaacggctct 60
 ctttgctttt atcggttaac atggaccaag caagaaacga gtcagacaga ggggtgaagaa 120
 gacgaagacg taggacttcc cctagagcta gagaggataa ttgctcagga ggatcgagag 180
 atgaggccac atcaagaaga gacggagctt gtagacttag gtgctggcag tgaaaggaag 240
 gaagtgaag taggcatagg tatgaccccc cccccccca tccgtgagga attcgtggcc 300
 ctgccgaggg actaccatga cgcctttgct tggttgtacc aagatatgcc tagtttaagt 360
 cacgacatcg tgaaacat 378

<210> 21264
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21264

tataagaaca aaattgccta aatcatttcc aaatatgcat gtgatttatg aagcattaac 60
 aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaaagatta 120
 tgatgatgga tggctcanat tatcacaaag gtaaacttat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtag aggaaaaaca aggatntcaa atcacaaaat gtcaagagac 240
 ttttattttc agaacaattt cccattnttt gaacatatcc tataattcaa agaaaaatat 300
 gcaaagttgt acatgcaaac aaaattgacc tataatatta aactagaaac ccaacaaaac 360
 taacaaattt aacacaaaca aaactaaca aactagcaaa accaaaacca aagaacactc 420

ccncccccat acttaaacia cacatggtcc tcaatgtagc acaat

465

<210> 21265

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21265

agcttgttct tattaatatg gacataaata gtgggatgtt aagttagttt tacggggatt 60
tcaatttgaa atctgaaatg tgttcatttt attttgtgaa ggtttttgat tcttctgccc 120
agcaaaggga tctttatgaa caagttgtta ctctgatagt taatgaagtt ctagagggat 180
ttttatgcag gccatgctag caatcttgcc actcaagcag accaagttga ggttgagttg 240
actgttaatt attttcatta tttatactct tgctaattat attcttatgt ttgatttcat 300
ttgcacttgg aaatttgagt gcaaaacata tgtggactga catgctacaa tggaggaagg 360
agtttgggtg tgatactatt atgcacgtaa atgcanttgg aatttatggc atttgt 416

<210> 21266

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21266

ctggagaacc aagccaatca gaatgctaga cgaaatatag atggttatat atgtaacaat 60
ggttggaatg acggaccgag gcataaccgg gttgaggag taaagctcaa tggtcctccc 120
ttcaaaggta gaagtgatcc agatgcctac ctggactggg aatgaagac tgagcacgta 180
tttgctgca atgactacac tgatgcgcaa aaagtcaagc tagcagcagt tgaattctcc 240
gactatgccc ttgtttggtg gcataaatac tagagagaaa tgttgagaga ggaacggcga 300
gaggttgata catggactga gatgaaaagg gtgatgagaa aaaggtatgt gccactanc 360
tataacagaa ccatgcgaca gaaactccaa gggctgtccc aagggaattt aaccatggaa 420
gaatattata aagagatgga aatggcggtta gtgaggggtca acat 464

<210> 21267

<211> 411

<212> DNA
<213> Glycine max

<400> 21267

agcttagtaa agttaagcac taacaatctc cccctttggg aaattttgtc taaaacatac 60
ttagacactt cctgagcagg tacgagcagt tatgcaagtg ggatcagcaa ctttcattat 120
cagagtaatc aagcacagcg gaaattctgc atgttgcaag tcgtttccag gatgtcaaga 180
catctcacat gacatcagct ttctgcttct gctccccctg tctccatgct tactgcagca 240
tcttctaaca gctactagtc ttttccagga tgtcaagaca tctcatgtga catcagctgc 300
tccccctgtc tccatgctct tactgttgca tcttttatca gctactagta gcttacacca 360
gtcatcatca gcagcagcag tctccccctc aaatcatata catacaactc c 411

<210> 21268
<211> 489
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21268

tactcagctt cctcaagatc cttttatctc cctgttgaaa tctcatntgt ccattagtgt 60
nggggtggtaa ggtgtggaaa ttctgtgcac gaccccatatc tttntgagca aggcatacat 120
ggatctatta caaaaatggg tgcccttgatc actaacgatg gctctagaga ctccaaacct 180
gcaaaacata ttagatctaa caaaatccac aacaacctta gcatcgttag ttctgggtggc 240
tntaacttcc actcactttg aaacataatg aacaacaagg agaataaaa caaaacccaaa 300
agagacaggg aaaggcccca taaagtctat acccaaacad caaacacctc acagaacaac 360
atgggttggtt gaggcatttg ttgtctccat gaaagtgagc cgctgtctct ctgacaaggc 420
tcacaagtgc tacagattct ccacgcaccc ttgaagatgg tgggcccaata gaaaccacag 480
tcaagcact 489

<210> 21269
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21269

attcagctcg gaccgaggat cctcttagtc acctgcagct gcagcctttt tgttctttta 60
 tatcagaggg actgatggtc actatgaatg acaaattctt tgagataaag gtagtggtgc 120
 catgtattca aagcccgtac taatgcatac aactccttat cataagttga atagttaatg 180
 gtaggaccac ttaactnttc actaaaataa gcaattggat ggcctttttg catcaacaca 240
 gcccgaatcc caacatttga agcatcacac tcaatttcaa aagatttttg aatgtttggc 300
 aacgcaagta tggnggcatt agctagctct tgctaagatc attgaaagct cttcttgttt 360
 ctctcgccat atgaaccaac atttttttga cacttcatta gaggtgctgc aatgtgct 418

<210> 21270
 <211> 515
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21270

agagatacnt ttgatgcctc gtagatctac acctttatac acacgccagc gaagctaadc 60
 actcacaata taatcaagtg ccaatacatt ttcttgcatg aggagtttca ggcattgcaga 120
 taagaatgaa gatcaggctt gtatgcatcc actgtatgga caaatactct cccaacgaat 180
 acagaatgat ctgctcacat ggtgcccata gcattcaaaa cactttaatg atcagctata 240
 tcacctatct ccatagatag tgtgcatgca tgtacatcta tcacaaaacg agcagagacc 300
 attatctgcc taactataac gatgggatcg gacccttcga taattccagc aacatancca 360
 aagggtgtcaa tccacacgga ttgccctaca ctattctaca ctagcccacc tatattaacc 420
 ttctgatagg cgcacttata tacctgactg acctatacac taaatgctgc tcccgcgtca 480
 ttaacacaca ttgccttacg gaggcctaca aacag 515

<210> 21271
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21271

agcttggttag tatttattgg tgtaatttgc ctgttccatt atgctcttaa tgtctttaga 60
 ggttacttcc tcattgacat cttttgtctt gaatggaatt gccatgacag gtctgttggt 120

actgtctttg atattcggta gttgatattg tgttgcggga ggtaattccg attggattaa 180
ctcaccatcc ttcacttgcc aatttggtat gacatttggt gttggatcac ctatgatgtc 240
ttgtttccaa gggtaatcta tatcctttct gatggcataa gcatgaaacc aataaaagaa 300
aaggacatta attntgactc gttcgacaaa ttcgtagaac ttgtcttgga tttgttttct 360
gtttgtaccc ttgtaatggt ggaaaaacca tctcctttga ggttcattct tcgg 414

<210> 21272
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21272

cgagaactct ctcttaggga attctttctt ctctatcatc attttctatt tcctttntcc 60
atcccttctc ctccatcaat tcctataacc cttgtctagt gtaaggtooc ttatgggtat 120
gagaggctaa acccttagtt agggctctgac aggcctaaaa agtcaaaaaa tgtattgtat 180
atctcatatc tatcaatgca aacaagtgtt ttctttctta ttatcttttc ttacttttaa 240
tttcatgcat cattcatcct tacatcattt ttgggggtta ggtgttcgac aaaaagtaat 300
ccttaataga tatacaagga aggtcttaca tgtatctatt ttatgagctc gacagagggt 360
aatntctaata agaattaana ggaanatgta tctgttcttc tttccaacgt gtgtaataaa 420
cataaaattt gaatgcattc tctctctatc tccnactctc tttc 464

<210> 21273
<211> 407
<212> DNA
<213> Glycine max

<400> 21273

agctttatta ttatgccaaa ctcccttcca aaatctgatt tcaagcttaa ataggtggct 60
ttgttcgtgt ttgcacgctt agcgcaactc taaaccgctt agcgtgcatt agtgaatttc 120
agcttagcac atgctttcct cgctcaacgg atgggctgaa gcggtgcgct tcgctggatg 180
acccttcgca tagcgcaatt tcacaactca tccttcttcc agattcttcc tcgcgcttag 240
tcaaggggtg tttcgtctaa cggatggctc gctaagccag aagattggct tagcaagagg 300

gtgaaaatca acacttcaca aacttgcccta attaacctga aattgagaga aaatgattat 360
 taaacacaca aaatggacat actaagtatt tattacctat ctttaac 407

<210> 21274
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21274

tgtcttagcg tntatgcgag acggagacca acatgctagc tatcatcttc aagtaccaag 60
 aagagttagg tctagccacg gccacgagc atagaatcgc ggatgagtat gctcaagtat 120
 atgcggaaaa agaggctaga ggaaggggtga tgcactcttt acaccaagag gaaaccatgt 180
 ggatggaccg gtttgctctt accttatacg ggagtcaaga acttccccac ttgttagcca 240
 aggccaaggc gatggcagac acctactoca cccccgaaga gagtcatggg cttctcggct 300
 attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
 tgggtctctca gaccttgact ggatacgact tcctttntga aataaaatga gttgttccca 420
 tgtttctact ccaaaaagct tgtgcgaatc aagtcactcc cacattntat ctctagcatg 480

<210> 21275
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 21275

agctttgttg ggtgcaccag caaaaatgct ggggtgcacct agcaacactc aactttttat 60
 ggaaatcaga ctttgtcctg gttcgggtcca attgatactt gggctgtaac tcctgaactt 120
 gtcttgaaaa aaattatttc ctaattgagc cttaaattgtt ttggaattgt tgagcaacaa 180
 ttaccatacc gctggtatca ataattatta tttatcaaac taacttataa acaaatgggt 240
 tgaaatacct ttgttgact atttgtttat taaaaaaaaat acatatttat taaagaaatt 300
 ataaattaag taattaaagt atgtaacttt tattattaat tcaaaggatt tgagttaaaa 360
 gtatgtaact ctttttatat aaagtatcta aacttatc 398

<210> 21276
 <211> 435

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21276

tgtgaacatt ctccaaggct tgaactgcac actggatttt attgctgctg aacagaagag 60
gattgttaat tatgtcgctt cgttgcagga gatggggaaa aaggaggagaat tgaaagggttt 120
gttatctcaa ctcaatatct attntgtggt tatctaata tgcaagaact gatcttggac 180
tgaatttcat ccatgttttg atattgttgt tgttcaatga atttacaatt gttggagaag 240
aaagttatgt gtttgggaag tttggatagt ttgtatgagg tcttangttt tatttgggct 300
gaaaccaggg tatccttcag cttagagtcg tagagtaatt tcgtgaggta ctgagatntg 360
ttaaagacga ttatcactcc tagaagatct gtattccata cacacggacc tgaggaccga 420
acctttgact acatg 435

<210> 21277
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21277

agcttgtatc ttaatttaga attcctctat aataaagttt attacatcaa tccttttcat 60
tntttggtgg taaggacggc tttagcccat caatcctttt tctatatcta tcatattaat 120
gatccgggct cctttgaata ttttacagga aagattctat ttcacctgta atccgatttc 180
gtaatcccgat gatgtgaccg ttttatttca tataaattaa ttccttcttt tatatgtgca 240
catacaagag ttgggttagc cgtttttttc ttgtacaaaa gttaaattaa ccattttcac 300
cagtttagcg gctntcgcca ccttcttcta cctctacaat atcccaccac tgccacaatg 360
cccccttcac gtgtcacctc anggcgtcng acatcctcct ctgtcatgt 409

<210> 21278
<211> 444
<212> DNA
<213> Glycine max

<400> 21278

tgatatttgt gccatagtag gccagatatt gattatggta tgggtttggt aagcagatat 60

atgaatgatc taaggacttc tcatatggct gcagtaaaga gaattttgag atatgtgaaa 120
ggcacacttg attatggctt cttattctcc aaagcaaadc ataatcaagg aataagggtta 180
attggttttt ctaatgcaga ctatagtggg gatgtagagg acagcaaaag caccactaga 240
tatgtcttca aattacttgg atcaacaadc tgcttgagtt ctaagaagca agaagatggt 300
agactttcaa cttgtgagtt agagtacatg gctattgtct cagcagcttg tcaatcagcc 360
ttgttggagt cctgttgta gaattgaata ttcagcttga ttcagttggt caacttaata 420
tggaacaaca gtctgctata tgtc 444

<210> 21279
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21279

ttcttgatc atataaagtg gatccgagga actctcaagg acttgggtcaa gatgtctata 60
agctggttgt tggagttaat aaatttagta ctaatttctt tggactgcag ctttttccga 120
acaaaatgac aatcaatctc tatatgtttt gttcttttgt gaaatacagg attagagggtg 180
atgtgaagag ctgcctgatt atcacaatac aactttatct gctgaacatc acanaatttt 240
aattattgaa gttgtttaat ccacaacaat tcacaagtaa caagagccat agctctatat 300
tctgctnttg cacttgatca agcaaaaaca ctctgtttct tgctttttca agagacaata 360
tttctccaa aggatacacc atatccagtg gtggatcgcc tgtctatggg a 411

<210> 21280
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21280

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caagtaaaat aatccaacta agcataaact aatacaagta gaaggataag aaaaaccagt 120
aaatgatcaa accaaactgt attttattca tattccatgt agtcttagat acatggaaat 180
ttgatcacat gaaccccat attctagtcc ctttttttga cacaagtaaa ttaacaagaa 240

acaacattga gtgacactac ttaattataa caaacaatt aacggaataa gtgatgacta 300
 gtactactta ttagttgtag tatgttcctg gggtttgga ccagtgcag tatattta 360
 ttcctttctc ataaatctgg actttggtgt cataagtagc ac 402

<210> 21281
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21281

ttcttcttgt tgttcattga ctccagattg ctgcaaagat agacagagat ctgtatggtg 60
 atctgcaaaa gaacatagac cacagactct tgcaataagt gcatatttct aatttatggc 120
 aagctgagtt actaggttga ccaaggcatn caagtttcct tcaagctttt tattttcagt 180
 agatgaagat gaatccgtgg ccacctcatg gactcctcta aggacaatag catcatttct 240
 tgcactgaat tgttgggagt tggaagccat cttctcaatc aaatatctag cctcagcagg 300
 ggtcatatca ccaagggctc caccactaat gagggcagct ngcacacaat ttcttgaatc 360
 ttttccagta ctcatacaag ctntctccac taagttgcct gatgcct 407

<210> 21282
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21282

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 tgcccaagaa acctcgaacc tgcttctccg tgcgtggttc cggcatttca ataatggcct 120
 tcattttctc gggatctatc gctatccctt tctgacttac gataaatccc agcaacttcc 180
 ccgactttac cccgaaggta cacttggttg ggtttagctt cagttggtat ttccgcaacc 240
 ttctgaacag cttacgcaga ttgacgaggt gttcgtcctc agtctgagat ttggcaatca 300
 tgtcatctac gtagacctct atttccttat gcatcatgtc atggaacaac gccaccatgg 360
 cacgctgata gggtgcccc gcatTTTTTca gcccgaatgc catcacttta tatcagaacg 420
 tcccccatag ggtgacgaaa gtggtcttct ctacatctt 459

<210> 21283
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21283

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 aatatgcatc tgcacctgtt gcaagagtct gtggctctgtg ttattctgta gatcaccata 120
 cagatttcat ccttctttgc agcaatatgg agtcaatgag caacctgaag cttatgctgc 180
 aaacatttat aatagacctc ctcaacagca aaaccaacaa tggcaaaata attatgagct 240
 ttcgagcaat agatacaatc cagggttgag gatcatcca aatctgagat ggacaagtcc 300
 tccacaacaa caacagcctg tccctccttt ccagaatcct gctgggtccaa gcaagccata 360
 tgttcctcct ccaatacagc agtagtcaca acanagacaa caagcaactg 410

<210> 21284
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21284

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 tttggagtta tgtagtatcc tctaggccct gcccaaggca gatagggtcaa gtaagcacaa 120
 aatccaaaaa ttagctacaa ttctcaatta agtcaatca tttacctag accaaaactg 180
 agttaggggtg agaaaataag ggtcaaagag atgttaattg agcgaagaag aatagaaaaa 240
 tattaaacta taaatgctca atcaatattt tacatttttt tggtttattg ctaattatac 300
 gacatgagtt tttctaaaaa attgatgttg tgaagtgtat gttaacatta gttttttgaa 360
 aaccaaagtt aacattgagt tcattaacgt tgggtgttaa ccaatgttga aagttgaaaa 420
 aaaccaaagt taaaatccta ttttctagta gtgaatcana ctntcccaag ttatc 475

<210> 21285
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 21285

agcttcttat ccaaggetca tcttggtggt gaagctcctt cttccatggc ttattcctta 60
atggatggcg cctcctctca cctcctttcc tttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacccc attgaagctc anagatccag cctccataga agccccacaa 180
gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240
tccattaatt tttttgcttt accttctctt ccattgttgc ttcttcattt ttctccatgt 300
atctcctcac atgtcttgtt ctanatgttg ttaacatgat tcttttagagt ttccaccgat 360
taaacttgct atagaagtta gaattgattt tctat 395

<210> 21286
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21286

tcttcattta taaccttgat attcatgtat ttattgtgtc acatcggttg gattcttcac 60
tcttgttctt cgtttgaagt cttgagcctg ttggagcatt tagtgcttgt actaaatgca 120
catcccttct tcattcaaag tccatgccaa taggctagtg tgtcttgtat tttagcagga 180
aagtcatttc tttcaacata acatgattgt aacaatagag tgtgcctttt gatgaggatg 240
tgtgtcttcc agacagtggg ctccatttat tattcttaag actttgaaag atcccaggag 300
aatggtttat gcagganaga atctcacaca cagagtatta aatgaaggtc ttanatacac 360
tacttaaattg ctatgttaga tcgtcttatg gatgcaacat atgaatatac agtcgtagag 420
atacagaaaa tgatttcata gcatatcaca cacc 454

<210> 21287
<211> 398
<212> DNA
<213> Glycine max

<400> 21287

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agggtctcct tgccttagtc ctttctgagg taggaactca gctgaggggac taccattcac 120

caaaaatgaa acagatgctg atttttagaca cccctcaatc cattgaattc atttgctgca 180
aaagcccatc ctacccatca tataagttag aaactcccaa gacacaaaat catatgcctt 240
ttcataatca accttgaaga caatgcaagg cttttggcat cttttggcct cttcaactac 300
ctcatttgta gtcaccacgc tgtgtagcat atgtcttcct tctataaatg ctgattgcct 360
ctcatgaata ataaaaggca tgaccttctt caatctat 398

<210> 21288
<211> 466
<212> DNA
<213> Glycine max

<400> 21288

tgtaggatta tgggggtacc atcacatgtg gtactagggt gctgtcgggc gatggtgcac 60
aacaagtttt ccacatccac aatgcgcgca taaaccacc atccccgtt gccacacctc 120
aactgagctc acgtactccc acgtagtcca tctctcgtt tctctcaaca ccgagtagat 180
gcaatcggct ctgatgtctt gatgatgac atgatgatgt gttgcaattg atgcaaattg 240
gctgttcaag attaaaattc aagacaatac ttcaagatta caaggcacia catcaagatg 300
atcactagaa tattatgaag ggaattccta attgaattat cagaggatag gccaaagtgt 360
ttacaataaa aagtgtcttt cagaggtctt actctctggt aatcgaacac cagaggatgt 420
aatcgattac cagtggccaa atacgtgtta taacagctat gaaaac 466

<210> 21289
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21289

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gtggatggcg catcctctct cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacia 180
gcaagcttcc taaggtgttc ctctcagtt ttagacttgg cgatcatgtc gtctatgtag 240
acttcgatct ctcggtgcat catgtcgtgg aacaaagcca ccatagccca ttgatagggt 300

gccccgacgt tcttgagccc aaaggacatc accttatagc agaaccttcc ccacaggggtg 360
acgacacatg gtctntttcca taccctctgg tgccatcttt atctg 405

<210> 21290
<211> 482
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21290

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tggccttgat tntctcaggg tccacttgga ccccatctct accaactaca aaacctaaga 120
aaactatatt atctacacaa aaggtagact tctctatatt tgcataagagg gtgtttttcc 180
taaggactga aagaacttgc ctgagatgac ctaagtgatc atctaggctc ctactgtaca 240
ctaaaatata atcaaaataa acaactacaa ttctacctag gaaatccctt aagacatgat 300
gcataagcct cataaagggtg cttgggtgcat tagtgagccc aaaaggcatc actagccatt 360
catacaaacc aaacttggtc ttgaaagcgg ttntccactc atcacccttt ttcactctga 420
tttgggtgata accactttta agaatcaatt ttgaaaagat attggcacca tgcaactcat 480
ca 482

<210> 21291
<211> 270
<212> DNA
<213> Glycine max

<400> 21291

ccaataaagg accccattga agcttaaaga tccacgctca ctagaagccc ccacaagcaa 60
gtttccatca atatggataa catatagata tgaccataat cactgagata aacttcatga 120
aacaggacct caacatcggg caacatgtcg agcacaatgt cgatgaaact taagacactt 180
gagcatctca caacaactga atttctatac tctggacgga ccttagatat gaaggcgagc 240
acattaccca cgaactgatc aagtgtctca 270

<210> 21292
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 21292

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agcttattat atctaaattg cctaaatcat ttccaaatat gcatgtgaat tangaagcat   60
caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaag   120
attatgatga tggatggctc gaattctcac aaaggtaaac ttatcacttt caaattgagc   180
tttcaaaact atcatgacat gtaaaggaaa aacaaggatt tcaagtcaca aaatgtcaag   240
agacttttat tttcagagca attaccatt acttgaacat atcctataat ttanagacaa   300
acatgcaaat ttaacacaac aaaactaaca aaattatatt agaaccaaac aaaactaaca   360
aaattaaact aatttaacat gactaacaaa accaaaacca aagaacacac tcccc   416
```

<210> 21293
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 21293

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tcatcaagag attataaata tgtgaccatg gcatttggtt cttgaatgat ctctcatcta   60
tcatctatct ttcaatctat ctttcaatat cttctttcat ctctttcaac agatctttct   120
aaattatttc tcttcattat tctaaaagat tttttcaaca ctttctcttc caagaaaagt   180
ttttgttca gaaacttggt ctattcatct ttttcattca cttatccctt tgccaaaaga   240
accaaggact aatcgctga attcttttgt gtctctcttc tcccttacia aagattcaaa   300
ggactaaccg cctaagaatt ctttggattc ttccctttcc cttaagacag agattacaaa   360
tgactaaccg cctgagata   379
```

<210> 21294
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21294

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agctnttatt tcaataaata agtttaaata agttggcca taatcaatat aaagtaatgg   60
aaaaaaaaa taatcaaaca tctatttgtc tttatcaagt ctatttcaag tctagtatta   120
aaattcaata ttttttttta tataatgtta ctctgtaata atttttatat gcatttatta   180
```

tcaaaattaa aattcattnt aaatgtattg aaatagagta attntaatta aacatatata 240
 atttttaatt attttaaaac aatattttta atgattntaa agatattaat tntcattatg 300
 tgataatatt aaagattaat ctcatcgat aataaataaa acactntcat ttagtataat 360
 taaaattata tattattatc attattatta tcaccattaa aattataaaa cactt 415

<210> 21295
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21295

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 gctcttttct tctctattg ccttttagttg aatacacctt tgtgtgggtc tctatttggt 120
 tcttaaccct ctcatgcaac ttctttacaa actctgacct agattccctt tcttgatgta 180
 taaacaaagt gtccagtggg aggggaataa ggtctaacga tgtaggggaa ttgaacccat 240
 agacaacctc aaaaggggat tgcttggtgg ttctatgagc tcccctgttg tcggcaaatt 300
 ctacatgagg aagatactca tccaagact tatggttgcc ttttagaaga gcccttgana 360
 gggtagataa agacctattc actaccteta ttgcccac agtttgtgga tgacaagtag 420
 t 421

<210> 21296
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21296

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 taaatatttc atatatcatc atttttatat ttttattatt ttaaaaatga ccataatatt 120
 tttatgtaaa ttaaaactagt tttctagggt ttttaaccata atatatgtat ttttcaaaac 180
 ttccatttca aagaaaataa tatttattat ttttaagttca aaactcaaag aggaaaaaat 240
 gcatgcaaac aaattcaaat aataagtatt ggctaaaata tttttattat gaaattaaat 300
 tttttaagga taaataattt cattntttgt aatatttgat attttgattn ttatttgatc 360

cttanaagta acattgtaac aataaaataa tatttttcan agtttatgaa aaaataatat 420
a 421

<210> 21297
<211> 482
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21297

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ctcgggaagaa aacacaaaaa gataggaact tcccaatcaa aagagtggaa gaaaacaaaa 120
agagaaaatt cccaatcgaa gagggggaga aagcaaaaaa aaggaaagaa aattcccaat 180
caaagatcgg agggaaaacag aagaaatata cagaaagggtc tttggaccag acaatatctg 240
aacaatacag aattgtcacc aagaaaatat gaaaagaaag gaaaccacga cctanagtgg 300
tcctctccct ttgattacca accaaaaatcc tgtgcgtcgg tgacttggtt gcctcgcgct 360
aaacaaaaat agaanataaa aaggccaaaa acactcaaag ccaaatttcc caccaagaat 420
aaccctatc ccaagaaaaa gtcctactga tccatgatca cgcatgtaat ctttgatttg 480
at 482

<210> 21298
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21298

ttcttataat aataaacttg gccttctctt aattgtcttt gggcttggcg accacgatca 60
acaaagtact ttccggcacct actatatggt gacttgacca acgctgttat tggaatgctg 120
cgacaatctt tcaacacctt attcacacat tctgataggt tggttgtcat gtgaccatat 180
cgtcgtccag atgtatcgta agccatgctc catttttccct tcgaaatgcg atcaatccat 240
cttgctatgg ctggactcag ttgacgaaat ttttctaagt tttgatcaaa cacatgcttg 300
caaggagtgt acgctgcac aaatttggtt tcatganaag ttatacgtag acatcaaagt 360
caaaataata taatgtataa aataaacctt acccaatttc ttgaacatc 409

<210> 21299
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21299

cgaagatgat gttntaatgg aggataagaa agagagaatg tgggtgcaca naattgaagg 60
 aataaaagag ggagagaagt ggaactttga agtgtgtctc ataagacttt cattcttcaa 120
 agttacaaca agtggttacac atgcttctat ttatagacta tgtagcattc ttgagaagct 180
 ttcttgagaa aacttacttg agaagcttct ttgagaaaac ttcttgaga atctagagct 240
 tagctacaca catccctcta ataactaagt tcacctcctt gagaagattc ctaaagaagc 300
 tagaacttag ctacacacac ctctctaata gctaagctca cctccttgag ataagaagct 360
 agagcttagc tacacaccen ctataatagt taagctcacc cctatgcccataaacatgag 420
 tatacagaaa aagtccttac tagcaagact actcaaaatg ccctgaatac aatgcta 477

<210> 21300
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21300

agcttttttca tttgaagaag aagaaagata agtagcaaag gtttcaagat ttctcaaaag 60
 ttgttcaaga aattctaaaa aattgttcta aaaagttatt aaaatgcaag tcaaggtctt 120
 gcttttatag actcttcatg tctggtcaag aaaaccattg gaagagttat aaccttgaga 180
 aaaacctgaa aaccattgga agagttacat ctcttgactt tttattcaaa acttgctact 240
 ggtaattgat taccaaaacc atataatcga ttacacaaaa cattntatga aaggatgtga 300
 ctcttcacaa ttgattntga atttcaacgt tcagatacac tggtaatcga ttaccaatat 360
 attataatcg attacacat ttaaaaatca attggaacgt tgcanattca g 411

<210> 21301
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21301

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 atggcgctt ctctcacctc ttttctttt cttccgctgc atctccatgg tggaaaatca 120
 ccattaaagg accccattga agtcaaaga tccagcctcc atagaagccc ccacaagcaa 180
 gtttccatca atatggataa catatagata tgacaataat cactgaaata aacttcatga 240
 aacaggacct caacatcggg caacatgtcg agcacaatgt tgatgaaact taagtcactt 300
 gagcatttca gaacaactga atttttatac tttggttga ccttgattnt aaaggcaagc 360
 acattacca ggaacttata aagtgttca gacgatgcan tttaaattgag atcaccatcc 420
 ttgaacaaag ataatcaatt tctgcatcaa acagttgtga tgatagcaga taacatac 478

<210> 21302
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21302

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 tgccatctcc atctaatttt acctttgcct tgagatgttt ggtgctttgt ttgttgattt 120
 ctttgtaatg tttgtgagat gagttgtgtg taaacccatg gtccaatgct ttgattggtg 180
 gctgtactag atggctctag gcctatcttt gatttttttt ttacagatta gcatgtcatg 240
 ttgctcctta tccctcattt atacatgctt taacatatgc acaccaacta tntgatgaaa 300
 taacacantt gctattctac gtgttatttt gatgcttgaa tgggtaatga tatctacaca 360
 tgttcagcca ttattttacg tgtatgatca actt 394

<210> 21303
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21303

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canaaacatg attgagtaga gaaacatctt tatatgcatc agctggtttg ttagaaagac 120
 ctaacacctt tacctactgc tgtcaatctt acttacttgc atttttacta tatttagcct 180
 agacttattt taattttgtt ttaaaccatc aattatcaat gtttctttca acaatgcctt 240
 atttctgaat ttaaccctgc ctaatactag ttccctgagt tcgatactcg gattcatctg 300
 ttttaattnt aaatacttga tgacccgatg cctttccatc aaaccggatt tcccttgaac 360
 atatttgtat gaagaaaaag tggaccaaaa agtatatgca tgggaaatcc aacactggtc 420
 ttatctgtag tatgcttttg catactaagc atgtgattaa gatcact 467

<210> 21304
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21304

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 caaatttaca gttttgcttg tcctcaagca aagaaagaac agttcacttg tcctcaagtg 120
 acaaagacag tggccaaata aaagaaaatg gtgtttgatt catcaaggac atcaaccata 180
 tgaactgaat accatggaat gcttaaataca attacttctc acaagcatgc agtctttcaa 240
 agataagagc acaagtatta gagtcacagc tgaaataagc tagtaagcat gacaganatc 300
 aaggaaggat catcaaccaa aacctcacag tcattgtttc actcaaactc aagtgtntag 360
 gcttattcca tcatatacaa ccaacacaag ttccaacctt tgcatttcat ct 412

<210> 21305
 <211> 403
 <212> DNA
 <213> Glycine max
 <400> 21305

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 aagaacgggt cagacctttg cgagattcct cacggaac gttacggaaa cgtttcggaa 120
 gcgcctcggc ttagattttc ttcacggaaa caatttttcc aagcaaattc gaaagagaga 180
 gaagtgccta aggggctgga ccccttctt cttcatttcc tcccctattt ataggaaaat 240
 aggggaggtg gttgccgcc agctcgccca ggcgagctca gctcgcccag gcgagcaggg 300

ttgcttcctc cagaagcaac cgccttcttg aggaatcttc tggagggccc atgtgggcct 360
gggtgctatg tgcaccccca ttcttactaa gtacaccccc etc 403

<210> 21306
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21306

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gtttgtattg ataatcgaaa agataggaag gaggatgggt cttgctagct gaacggcgag 120
gagaagaagg ttgatgggag attggtgatt catttgagga aggaggagac atggttgatg 180
gtgaataaag ggacggctcg ttgaatggag gattggaaat agggctacta agtgaatttg 240
gtaaagggtga tgaaggggat gtggtctcaa agggaacaaa aggtgtgttg gttggtatag 300
caggtgagga tgggtgtattt agtaagttag tgatggaatt attangaaga ggaggtgaat 360
gtnnggttgg attgatagga gtagtgtgaa aaggaaaaat tagttcatg 409

<210> 21307
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21307

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tatatattct tgttttttat tttaattttt accgattaat ttggaattgt atttatgttt 120
tattttttta gcattcttga attttcatgt ttctaacctt tataattttt tttctatttt 180
tatttaattt tttttatatg aaatagcaat taaatgcgta ttaagattta agggacacct 240
catagaggga tatctcatgc acgctcaatt ctcttaatta tgagtcacgg tttgcaaatt 300
gcaacccttg aaattatagg atagaagagg aaattgatta tcaattcatt tggggtaatg 360
gatgagatag 370

<210> 21308
<211> 400

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21308

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gaaacctcac accgagagga acccttcaat tggagcgaaa tcttccaaac ttacctcacg 120
gtttcggttg agaatgaagc ccaatctgac ctctgcagtt ttcttcgagg taaccgtgat 180
tctaagcttg ttccttggtg gtttaagctt atccttgcat ctttttctga ctttggaacc 240
accattgtaa gttttatgct tcctttggaa aaccctagag aaagacactn tgtaaaagtt 300
atctttntat gaaatgggtg ttattttcgt gaccttcaat gaatcccagt cgcattggca 360
tgactnagaa tttcaaata tgctcctttt gtagactcga 400

<210> 21309
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21309

nttaaggcca aaccttntca accatcatga tattctntta aaatataatg gactaacatg 60
aatcttttct tttgatctct tgatcttgac ttgaacttgt agtgtaaaaa ataatggact 120
aacatgaatc ttttctttag gtcacatggt tgttggtata tgtagaggat gaagactcac 180
ccatacgacc aacatttttc aaatggaatc attgatgtt tgtagtcggt ggggatggaa 240
tgagttcgct acaacaagca ataataaggt ggatggactt gttcaaggaa atgaggatct 300
tccaaggata catcatgagt tcaaaagggg atatgatgaa ttntagttta tggattcatt 360
gctctcggtc ttactcattt cttggatatt agagagggtg gactagactg tcgttcatga 420
tgtattaaac tcttggatct gacttagatg ttatatgtat ttaa 464

<210> 21310
<211> 387
<212> DNA
<213> Glycine max

<400> 21310

agcttttata ggtgaaatca ggtgcagcca tttcccttat agtcctctca cgagggtggag 60

gttgtgccat gttctcagaa tgtgcaaaat cagaatgctc agaatcagaa tgctcaaaat 120
tataatgctc aagattagga tgttcaaaat caccaataac agaatgcaca gattcaccag 180
ttatacaatg ctccagaatga tcaaaaggta taaaatgatg cctaactgaa attctgatac 240
tgaggacaga tgctgtacag gatgtcacga catcgcgctt cagaacatgc agattgtata 300
tgacagtatg aacagattat acaagtaaata aacacaagag aattgtaacc cagttcgggtg 360
caacgtcacc tacatctggg ggctacc 387

<210> 21311
<211> 464
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21311

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gaggacatgg catatcaact tgctacttca agaaaaatta tagtaacatt aaaatgatat 120
gggtcccaaa aggatcctca gtttatacta acatgcaagg acccaataaa atttgggtac 180
ctaagtcaaa aacttgatta tgcaggtatc tttgagaaag aagtgggtaca tagatagcgg 240
atgctcaaaa tatatgactg gagatgcac annatttaca cacatatctc caaagaaaag 300
cgggcatgta acatatgggtg acaacaacaa aggtagaatt ctgggagtgg gtaaaatagg 360
tacannatct tcanactcca ttgaanatgt tctacnttgt gaaggcctta agcacagcct 420
gcttagcgtt agtcaactat gtgacanagg ctatctagta tcat 464

<210> 21312
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21312

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gaccattgtc tatgataagc aaaaggaacc tcaatgacgt tctgcaaatt aacatttgaa 120
gcatattatt tatttgatat taacataaat aagtaaattgt ttaggggtga aagtcatgac 180
ctgctcaaga tggaatgacg catcaaactg gtgcacaatt ctcggtactc ataaatttga 240

tgggccctag atgagaaaag tttatgtaat gagtaagtga acaaagatgt acccattgaa 300
 aggagaagat aaatatgcgc aatatcaaac atgtactatg aacganaaga gcaagcatag 360
 aaagatgaag gatgcatgat gaagcaaact cgaacatata cttataa 407

<210> 21313
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21313

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 agacaatgtg aaagttataa ctactagctt atgagaaaac atgaaaaacc acatctagat 120
 ggtgaaatca aacacgctat taatccttga ggggaagtata ttactattga ttntctatct 180
 ccatcatttg tgtaataagg catttctttc cttgaactat aaattagtat aattggggat 240
 cttaatgctt aattggacta tctgactcac agatcccaaa tgacctttta gttttttaag 300
 ctctgaatct gcgtttctaa ttgaaagatg aatgactaat gatctgaatt ttcttcttgc 360
 aatggtgaca ttnttggcag acttatgtgt ccaacaatga aaagattgtg catctcagac 420
 cccggacttc aaccaaagaa ttcaagctaa caagaaaatc caagtttgat aatc 474

<210> 21314
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21314

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 catttgctgc ccaagtttca tgggtcttga ggtgaagatc ctcataagca tcttaaggag 120
 ttccatattc ttgtttccac catgaagccc tctgatgtcc tagaagatca tacctttcta 180
 aaggcttttc ctattctct ggagggagtg gcaaaagatt ggctatacta ccttgctccc 240
 aggtccattt tcaactggga tgaccttaag aggggtgttct tggagaaatt ctttctgca 300
 tctangacca ctgccatcag annagacatt tcaggcatca aacaacttag tggagagagc 360
 ttgtatgagt actgngaaag attcaagaaa ttngtgcga gctgtcctca ccacca 416

<210> 21315
 <211> 283
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21315

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 ggtgggggttg atgtcccttg ccggacgggt gtcgagttgg aggggtttcc gacgtgggcc 180
 gaaaagctcg gaaggtgctg ggtatactga tgattattgt gatgggggtga tagtggtttt 240
 ggccaagcat gatccgacgt tatggagtga gcatccactt ctt 283

<210> 21316
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21316

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 aacctagtat ttttgaactt tcttttaatt tcttttatac ttcttggtta catatttgtg 120
 ttgtttaaat atttatttat ttgaactctt tttaaattgt taagattata cttaattata 180
 agtttattat aagagttttt gtacccatga aaaaaaaatt gcccttaact cacctgngct 240
 agtggacagc tcgctttggc gagtgaatgt ctgtagtgaa aaataaaaaat gggtgaaatc 300
 taatttcacc ccactctcat ttcacacttc ttcttccttc tttttgcatg anaccttagc 360
 cctcattctt ccaaaactcg cccaagctac cttcttttcc acaaatectt catt 414

<210> 21317
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21317

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aaaacccaaa gaatgatttc gagattaaat caagatcaaa ttcaagaatc aagagaagtt 120
 tgatttcaag attcaagaaa agatgaattc aagttccaag agaagaaatc aagaagactt 180
 cacaatggga agtattgaaa agatttttta aaaaacaaac atagcacaat tttgtttttc 240
 aaaagagttt tcacaaaatt ttctatgtta ccagagtttt tactctctag taatcgatta 300
 ccagtttctt gtaatcgatt actagtggca aagtttgatt tcaaaagctt ttaactgaat 360
 atacaacgtt ccaattgatt tcaaaatggt gtaatcgatt acaagatatt ggtaatcaat 420
 tactagtgc tctgaacgtt ggaattcaaa ttcaattgtg aagagtcaca tcctttc 477

<210> 21318
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21318

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 cgtcgaagaa cggttcaaac ctttgcgaaa ttcttcacgg aaaacggttac ggaaacgttt 120
 cggaagcgcc tcagcttaga ttttcttcac ggaaacaatt tttctaagca aattcgaaag 180
 agagagaagt gcctaagggg ctgaaccctt ttctttctca ctctctcccc tatttatagc 240
 aaaatagggg agatgggttc cgcccagctc gcccaggcga gccangttgc ttctccaga 300
 agcaacaacc ttctggagaa atcttctgga ggccccaagt gggcctgggt gctatttgca 360
 ccccatntnt tactaagtac accnctctg cttntttttt tgtgattctt ttttcgtaa 419

<210> 21319
 <211> 306
 <212> DNA
 <213> Glycine max
 <400> 21319

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 gagggttcct tgcattgtac tgaatcttgc tttcaatttc atagtaagta gtaaagtcct 120
 tcttcattga gtatgtctca ttaagattcc cctgcatttc acgaatggag ggataaaaca 180
 tgcaattaca gcttattttg tgaaccaaag tgccatatct aggtttatga taagagagtc 240
 ttcatcatcc ctagcctcaa actttggacc taccctttca atatggctca acttcatatg 300

cctttt 306

<210> 21320
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21320

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 ctcacagtct ttagatttgg gagccaatcc aatccttggtg tccggattct cagccactta 120
 ttatagcctc cgatgatccc atcactgctt ccctaagct ttctgtcctt tcttcacgcc 180
 gcctcccatg ccttgcgaaac tccttggagt accctcgcgt tgtgggcact gaaacctcgt 240
 gcgatgaaag gcgtgatgct ttogtctgat ggcactcctc tcatgggaca tccttcgcat 300
 gaagatagaa tcctgattct tccttccttc tagcgaggga accatttaac agacgccct 360
 ccatgc 366

<210> 21321
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21321

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 tcttcttctt ccctcttgcc taaagattca aaggactaac cgctgagaa ttcttttgat 120
 tcttctctt ccctttaaac aaaagatttc aaaggactaa ccgcctggga tatcttttgt 180
 ttcccccttac aaagattcaa gggactaacc tcctaagaat tctttgtctt aacacattgg 240
 agggtagacc ctttatggta caagtagagg gtacatctac ttgggttggt atactgagaa 300
 caagagaggg tacatctctt gtggatcagt tcaagtggag ggtacatcca cttggatggt 360
 caaagagaac aagggagggt acatccctta tggatctttg cttgtaaagg attttacaag 420
 gttattggaa atccta 436

<210> 21322
 <211> 411

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21322

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aacacaaaaa tgtgatttgc aagtgaataa catgtgtgaa gcattcaaca atggtaaagt 120
gagtacaaag ataaaccaat tattactcta cttgaggga tctgattnta cataagggcc 180
aaaatttgtga agctgaggac tatcctcatg agctatgagg gttcaatctg tcccaaaatt 240
tagcaaatca ttgaaaaaaa ataaaaaaa gcatgtgaag catggtgggc acattggtgt 300
ggtgatgctg atttatcttt gtttgagggtg tcaagggcat ggaaaaantt gttgtgaatc 360
ttaaaanata gaaatgttct tgtagaaagt gggagctaac tggatcaatg g 411
```

<210> 21323
<211> 476
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21323

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tgagactatt gatgctgatg tgtcaagggt atttttattt ttattntttt atttnggatt 120
gttagttggt agtttttgtt agaacatctc caatgcatga tgcttaaagt aattgcttaa 180
agttaaacia tgtttcttaa caattttttt tattanaatg gatgatatgt caatgctctg 240
tataattgag ttgtttaatt gattattata aaaaaagacc aattttttta tctaaaattt 300
aatgtgactc aagttaagt cttactttan aaactttaga gctgaaataa attcttgtat 360
aaagttctta aatctatgtg gcattaattg taggattcac aaatttaaga caaacaattc 420
atttaagcaa tcatacatga tagacgcttt tgggtggagaa attcgaaccc ccaact 476
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<210> 21324
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21324

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 attttgataa tcgattacca gtgcacttga acgttggaa tcaaattaaa ttgtgaagag 120
 tcacatcctt tcataaaatg ctttgtgtaa tcgattacaa ggatttggtta aatcgattac 180
 cagtgcacaag ttttgaacaa aaatcaaaag atgtaactct tccaatgggtt ttcaggattt 240
 tctaaagggtt ataactcttc caatgggttt cttgtctaga cttgaagagt ctataaaagc 300
 aagaccttga tttgcattta aaacaatact gacaaccttt acaacaact tttccacata 360
 ttcttttact agctntgaat ctctttgaac attttcttga acttcttctt ctt 413

<210> 21325
 <211> 480
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21325

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 ttgctaattcg attaccagtg catctgaacg ttggaattca aattcaattg tgaagagtca 120
 catccttttca taaatagctt tgtgtaatcg attacaagga tttggtaatc gattaccagt 180
 gacaagtttt gaacaaaaat caaaagatgt aactcttcca atgatttttca ggttttttcta 240
 aagggttataa ctcttccaat ggttttcttg accatacttg aagagtctat aaaagcaata 300
 ccttgactta cattttaaag aagaacttac aatacttaca acctttacaa acaacttttc 360
 cacatattct tttacaacct ttgaatttct tcttcttctt cctttgcaaa aagctntcta 420
 aactnttctg gttttccaaa ccttgaaaat aaaagtgtgc tattcatctt tttcattccc 480

<210> 21326
 <211> 415
 <212> DNA
 <213> Glycine max
 <400> 21326

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 agcatttcaa tctttcacga gtaagtttct catcttagtg tgaaagaatt ttatttgaat 120
 cttcacttac gagcctatga aagatgaaga aaaaattata aaaattggaa agcaaataaa 180
 agatttcaag ggtgcaaacc ttacaaagtt ccaatgcacc caacttgaac caaaatagta 240

aatcagaggt caacaactac aaatgcaaca aacaacaagt caaagtcagc aaccgtaaata 300
gctatgaagg tcataagcaa aacgaacagc gataacaaca aactcaaacc agtaacgaat 360
agacatgaat gagagaacca ataaaaacgt acgtgaatga aggagtgaca tgact 415

<210> 21327
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21327

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ttcgaagaat gaaggggtctg tggttgaggagg tggcgatgag gtggaggaca acctcgggtgt 120
cagaggtggt gttgaagatg gagccgttgt cttegaggtt ggttcggagg gtcttatagt 180
tgacgaggtt gccgttgtgg gccacgccga cggagccgaa gcggtaaccg gcgacaaagg 240
gctggacgtt attgagcatg gattggccgg cgggtggagta gcggacgtgg ccgatggaga 300
ggctgccgga gagctggtct agttttgatt ggttgaagac ttctgagacg aggccaacgc 360
cgggtgatgga ttggatga 378

<210> 21328
<211> 391
<212> DNA
<213> Glycine max

<400> 21328

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gcactgcaag aaaaggtctc attaaggatg caaaatgggt gtgtgatcaa tcaattgtgc 120
ctgcagtata agccaattga ggaggaacat gcttgcattt tgatgatgac aattcacaat 180
ttattttgaa gagaccagca atgacatctt atctggcagt caaagactgt aaaagatggc 240
attccatcgg ttttaattggc atcccagatt ttggatcttg tgtcatttag ttttaattga 300
ctctaacatt aactagtttg ttatttaacc tgctatgttt attaactatt aagaaatata 360
ttagagccat tacatgcaat cactctttca t 391

<210> 21329

<211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21329

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 tgggtagtgg gtgccagcac atggccgcct gctccaccaa tccaacttcc ctttcttaaa 120
 tcatataaac ataaggacaa atttgtaatc atttatttat caaaaaactt ttttaattca 180
 attattttta tagttgaaag ctagctatca gactaattct tctttttgtg tgtttgattt 240
 caaatccaaa atttacattt agagtaaaat cacattaata gattatctta tgtaatgtta 300
 caataaaaaat atataaaaaat aatactagtt tgaccaacat tactaatgta attctatggt 360
 tttctctaatt ctccccttca ttntcaattc aaattgcttc gacttgtttt gttcatctct 420
 gacatgtggt aattctgccat tatcg 445

<210> 21330
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21330

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 ctaccaagat gtatcaggat cttaagacaa tgttttgggtg gccaaacatg aagagaaagg 120
 ttagtgagtt tgtgcatgca tgttttagtct atcagaaggc taagatagaa catcagagac 180
 cctcaggtaa gctgcaaccc ttagagatac cttagtggaa gtgggacgat atctccatgg 240
 atttcattgt agggatacct angaccccca aagggtgtaga ttctatttgg tttgttggtg 300
 aaagattaat caaatctact cactttatcc ccatcaatat caag 344

<210> 21331
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21331

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agtattttatt acctatactt aacagaaaat acttataaca ctacaaaata accaaaaatt 120
 agaagagttt gatacaattt ccacaagttt tatacacaaa agttagtcgt attcaccgac 180
 taacagtctg tcgatcccta ctatcacaat tgtctttggg aatatcccat gagctcttgg 240
 ttgaatgagt tttcttctca aatgtgcaag tgtgaaacct caaggattct ctttttcttt 300
 atatatatat tntttaaaca atcacaagcg tgcattgggt ccattccaga atcaaaactt 360
 antagcaaaa ttagtcattc cttgatccac atgggcttta ttgggcttgt aacatgggtca 420
 ggggtaagag gtgatgcant cctaccccg c aagggtatcg gata 464

<210> 21332
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 21332
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 ttccctttcc ttgttttgaa gctcactaca agccttaagt gaaaaacat gatattacca 120
 tatccttaag gaattttgga gctttggaat tgttttggga ataagtgtgg ggggtttttg 180
 tttcattgga caacttgttt tgttgactat gttcatgat gtattttggg tcatacttga 240
 tgtacattgt atattgggta aatgttgac atgctgaatg aaatgttgtt tctcaaaggt 300
 aaaaaaaaaa aaaaaaaaaat caaaaaaaaaat aaaaaatcaa aaaaaaaaaag agagaaaagc 360
 aataaagttg agtgaataag atcttaaat 389

<210> 21333
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21333

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 aaatgtgaca acacaagtgc taccaatcta acaaaaaacc cagtcaagca ttctaggact 180
 aaacacatag aaataaggca tcattttctt agagatcatg tgttaaaagg tggctgctgc 240

attgagttca ttgatagtg gcatcaacta gaagaaattn tcactaaatc ttttgctaga 300
gatagttttt ttattagaaa tgaactangc atgttagatg catctagcat aaaatgacat 360
tctgtttgca tagtgtgtga tgcacattgc tactcatatc atttgttntg tttagcttgt 420
gtcccagttt attgattcat atgcatactc attagtag 458

<210> 21334
<211> 112
<212> DNA
<213> Glycine max

<400> 21334

agcttattct tgcattcat tgtgacttgg gaaccaccaa tgaaggtata gggcatcctt 60
ggaataacac taaagaacga gacgttgtac acgctatcct tacgtgagac gg 112

<210> 21335
<211> 510
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21335

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agcatgggtg ctacctacac agtcttctta cgtctagacg aaccttcagg agggcccaga 120
tggttatggc tgatataaga atgcacatct ttactatata caccacttg ccgttcctaa 180
ggtgatccta ttctcgtaca gagatgcctc tgacgaatta cgctcagact cttgagctct 240
ttccggactg catccgaacc ttgcggattt catactcata cccttcattg actatcatga 300
tgctacgggtg cctcactaat tgtgcaggga tgcttacatt tgacaacgcg tgtgtcaccg 360
aaccgtgcgg acangtgcgt gatattacct ttagatttcc agcatgtacc ggagttccac 420
aattgcctac gatgggtgca tgcacctcca tcgacgtact tanatagatg tctacggcga 480
tagccacgac gacattaggc ttacagtgcn 510

<210> 21336
<211> 415
<212> DNA
<213> Glycine max

<400> 21336

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 ctttttttaa cttctcttct taaaaggaga gatgttgagt caaacacatt ttttaaagag 120
 ctcttaaaag gtttagcagt ttaattttat aaagagaaat gaaaacaata gttttcttct 180
 tcttttttta aagctagggtg acctgggtgaa ggagattttc aaatcaagtt gtcactctct 240
 ttctctcccc tctctcgctc tctccatggt ctttctattt ctctctctcc ccactttctg 300
 tctcactctc ttctgttct ctctctctct tctctctctc tctctctatc tctatctctc 360
 tccctgctct tttatctctc cgtcttccag ctctcactct cacaagtcac ctctt 415

<210> 21337
 <211> 219
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21337

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 gagtccatta aggaatatgc ccaaagatgg agagatctcg cagcccaagt cgtaccgccc 120
 atgacggaga gggagatgat cacaattatg gtagatacgt taccacatt ctactatgaa 180
 aagctgatag gctacatgcc agctaactnt gcggatctt 219

<210> 21338
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21338

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 gacactacta aaaaaaatg gcatacaacc tctcccata aatacaaaca tcaatgtaaa 120
 tttagagcaa gcttatgcgc atatttcctt acgaacgttc actngcacia gacattctat 180
 taactaagaa aaatgcaccc atatacaatc aaggcagctt cgttacctag attatttaca 240
 tgtacttcca aggtgtatgt gttacttaca tcacacacat ttccttggct aaatttacet 300
 acatgcatac tcaaagcatt ntgggggtacc aaaaattgca catgtgcaca tcttgggtatt 360
 tctaatacct gtacatgcac aaacttcacg atgaatcttg actatctaca caat 414

<210> 21339
 <211> 486
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21339

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 cttttcttag atgcaatttg taaaatataa gacaaaacac aaaagattag cacatgttat 120
 tttcacaaaa acataaaaaat aaaactgaaa ttttgattaa gcgcttagcg cagcaggctg 180
 agcttagcgt gccttatgaa attttacaca tgcgctaaga aaaacagact ggcgcttatc 240
 ctgaagacac ataaaatatt ttttctacag attaagctta gctcaacagc tgagcttagc 300
 ctaagtctac aattttgaaa accaaagaaa gttggagctt attgcagcat ggcgcgctta 360
 gctcggcctc atcagaataa cactcangct taacgcacag gcgcggttag cctaactaca 420
 aaaattttaa agacaatgag agagttgagc ttagcgcatac ttggcgctta gctcaacaca 480
 caacat 486

<210> 21340
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21340

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 ttaacatcac ctgttccaat ttagaaagga gacaaattta gtcttgaca atgtcctaga 120
 aatgatatga aacgaaaaac aaatggaagc aattccatat gcatcagttg ttgttgcatc 180
 tactatggaa gctgaatttg tagcatgttt taaggctaca attcaagcta attggttgca 240
 gaactttatt tcaaggctng aaattgtcga cagtattgtt aggccactat aaatatgttg 300
 tgataactct gcagtagtat ttttctaaga atgacaagta ctctaagggt gctaagcata 360
 tggaattgaa gtactntgtc gtgaaggaag aagttcagaa acaaagagtg tcaata 416

<210> 21341
 <211> 443

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21341

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tcactact aggacgactg agataactgg ggcaaataaa gaggggtgagg atgagggaga 120
aaccocatgct gtgactgcc a ttctgtacg gccaaagttc ccaccaaccc aacaatatct 180
ttactcagcc aataacaaac tttctcctta ccaccacccc agttatccac aaaggccatc 240
cctaaatcta ccacaaagtc tgtctaccgc acttccaatg acgaacacca cctttagcac 300
aaaccanaaa caccaaccaa gaagtgaatt ttgcagcgag aaagcctgta gaattcacc 360
caattccagt gtcctatgct gacttgcctc catatctact tgataattca atggtagcca 420
taaccctagc caaggttcat caa 443

<210> 21342
<211> 387
<212> DNA
<213> Glycine max

<400> 21342

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ctcaagaacc tcatttttct cattatagga cgtatagcaa tgggtggaaac taatgttacg 120
tagaacggaa agcgatctcc catgtttgct cctaataaag ggttgcacaa aggtgatttg 180
ctattacctt acctctttgt tttaggtatg acaaaactct ccacattat cttgaaagca 240
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tttgcgatg acttattatt gtgtgggtcag gcttctacta agcatatgaa atgtactttg 360
gacactatgc atttgtttgg cgagatg 387

<210> 21343
<211> 562
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21343

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nnnttgatgc ctctgtggaca gccacccaaa gaagcgcgca ggaagagcaa cccacaaaaa 120
 agaaaagacg tcgttttaaaa acacaaaagc cgccaggggg aaagcgcaga agcaacaccc 180
 aagagngagc aaaacaaaga cacagaggag gagaaaacca cggccgagga agcaacacaa 240
 agagggcccc acaaggagga ggaggaggac gctaaaagac gggcaaacnc cacacccgaa 300
 aacaagaaca cagcgcacca ccgcaanaag acgacgcaaa cggcaaccaa anaccggcaa 360
 aacaaacaaa ccaaacgaaa agaaggcgac accgaagagg accccgggac agagaaccga 420
 agacagaaaag accccgcgga gggcccagaa gatagaggga cgaacaagag acgagagcga 480
 caccggccca gcgggaaacg acacaaaagg acataaaacg gcgacacacg ccagccgaaa 540
 gaggaacaag accacaaaag ag 562

<210> 21344
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21344

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 gcttgccctcc gtagtgatgg atattgatta gttttctcag tcttactgta acgatattgc 120
 catgaaaaaa ttcatgacaa agaaaaactg gagaaatatt ttaagtctgt cggaattcgt 180
 gattcctgag aattaaattg ttttttaaat tgagcaaadc cttgttgaac ctgctctgag 240
 aaaatctccg gaatagggcc aaagaaatcc caccattgta agaaccaatt tgggaaatta 300
 tagattgtgt tggttttgaa atatattaac catgagtgtc tgaagcgggt gtnttgggtgc 360
 caaaaaacct ttgtccaagc atcaacataa tcccaatagg tataacctac 410

<210> 21345
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21345

acactataat actcagcttg aactattggt gaggtagact agganaagag aggttggttg 60
 ttttaattcta ctcaatatcc tcaatattag aaaataaatc aataaaataa gaatttaaca 120

tgtccttaat ttgatgatcc ttctctatcc attgccctta agtatttctt aacataagaa 180
 tcttatttct ttttcttatg ttgatagtct tgagatgcta gaatctctgtg tttctgtctc 240
 catcttggat ccacttgggt cttgattggt gaaaccaatc aagctcctcc tgcttaagga 300
 ttgcatcata ctcatctaga cccttttcca ttcacaacca anattgggtg gatctccctt 360
 cataaatctt tttttggatc tctoccaaacc tattaatgac tctctgcttt ctatatctaa 420
 tgcaaccaaa cacctttctc ttc 443

<210> 21346
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 21346
 attctttgat ggttttgaga agaaatcaca tgtttgtcat catcaaaaag ggggagaatg 60
 tgaatgtatg tatacatgat tttgatgatg tcaaaagaag aatcaaacia ggctcatctt 120
 gcttcaagat taatacaaga ttgtttcaac aaacaaagcc ttgattcaag atttcttcaa 180
 gatcaagcct tgcctcacia tgaaagggtt caagtcattc aaggcacatg taattgatta 240
 ccaatacatg taatcgatta ccaatgggtt gaaagtgtgt aatcgattac acatcatatg 300
 taattgatta ccagagactc tgaacgttgg gaattcaaatt tttaaataag gggtcacaac 360
 tgttcaagat aaacaactat gtaatcgatt acactaattc tgtaatcga 409

<210> 21347
 <211> 630
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21347

cggcaacgat ggggnntttg tagacnatch ctagctacat anctcgacat ctatttagaa 60
 tactcaagcc ccttgaagtg acangnnttg actanatacc tnntgtaatn ntagttaaag 120
 ttttatgata tactnntggt agtnntgtca natannattg anacaccana tttcatgtgg 180
 ggtagaagat gaaactcagt atttaaactt nnnttgtaac cttaatatg ggtttccttt 240
 ttgtgttttn tcttgggctt taanagtgga ccatanaggg gttaannna tttgaatttt 300

tgtnttttgg aaaagtatct atttttgttt tacccaaagt ttcttcttca aatagataac 360
 ctntgttnnn tggtaaaaaa aagaacttga aaatatttct ataaaccaca cattcaatct 420
 tcttcttctt gtgatanntt gcatttaca tatatatata tatatatata tatatatata 480
 tatatatata tatatatata tatatatata tatatatata ttctaacaat catctaattg 540
 tctaaggtct aattaagagt agactgtgcg cacaaagaaa atgcacatat cgccgcacaa 600
 tctactacaa gtcacattat tcttaattcg 630

<210> 21348
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21348

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 agagagagag caaacacaaa gcacaaaatt cagagttccg aaacaagtac aggaaaatct 120
 taaatattca tatttcataa ctttttactt ttttaggagg cttcacgcaa ttcaggttgt 180
 ttttttcagc taatgctgta gggcccttat taattggttt cttacttcca gttttaacga 240
 tgctttatct cagtgcacac ctccctcaac ctcaacatat ccttgctagg accactatga 300
 tctcaactaa ttnttttatg taacatatag ttatatntnt caatttataa aaaaaattaa 360
 tgaaacttga ctacatgtga agaagaaatt agtagaaacc agtctc 406

<210> 21349
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21349

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 tatatgaagc attatgtaat gttgttttga catatctata ctactgcacc tacattgtac 120
 taaccatata tttctttata atgcaagtat actaaactac attttatgaa aatgtgtgaa 180
 agtctatgaa ttcaagtgtt ggtccctgat atctatataa tgacaaatgt atgacattga 240
 ttttaaccgct cttgtatagt cagattacat caagaacttt gtattgataa ggctactgaa 300

atggtctcct aagattataa gaatcatgtg atgtttaatt caccacagtc atactgtgtt 360
gaccaccgcc aaatgtcgat ttttacgaat ttttctaagg atgaccatgc 410

<210> 21350
<211> 388
<212> DNA
<213> Glycine max

<400> 21350

ctgcagcttt tatttattag atgaagatga atccgtggcc acctcatgga ctctcttaag 60
gacaatagca tcatttcttg 'cactgaattg ttaggagttg gaagccatct tctcaatcaa 120
attcctagcc tcagcagggg tcatatcacc aagagctcca ccactagcag cattaatcat 180
actcctctcc atgttgctaa gtccctcata gaaatattga ggaaggagtt gctcagaaat 240
ctggcgggtga gggcagcttg cacacaattt ctgaatctt tcccagtact catacaagct 300
ctctccacta agttgcctaa tgccctgaaat gtcttttctg atggcagtggt tcctagatgc 360
agggagaagt ttctccaaga acactctt 388

<210> 21351
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21351

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aattagagtt tatctctttt atcttagtga gagtgattct cctaaattct tgagtgattc 120
aagaacaccc tggctgtatc aaaggacttt cacaaccttt gtgtgttgcc ctgcaggaa 180
agagtgattc tttccttctt atcatctcca ccctgtttct ttcaaaccac aattccagaa 240
aatccacctc tgcccagaat tatctcgtgg ccataactcc cattttacac actcaaatta 300
agtgattggt gaggctaaat tgactttcaa aacgagacct ttcacctcgt ttgaaatca 360
cctcatttgg agccctgtag ctntagttat tgtcatttct atatntctgt ccagccacca 420
cttaacctac attntaccat cccattcatc cattttatgc caagaaccac cttatta 477

<210> 21352
<211> 414

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21352

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caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaatg 120
cttatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180
tttcaaaact atcatgacat gtagaggaga atcaaagatt ccaagtcaca aaatgtcaaa 240
aactttttatt ttcaaaacaa ttacccattt cttgaacata tcctatgatt canagaanag 300
catgcaaagt cgtacatgcg cacaaaattg acccaaaata ttaaactaaa aatccgacga 360
aactaacann aataacanat taacacaact aacanattaa caaaaccaac aaaa 414

<210> 21353
<211> 395
<212> DNA
<213> Glycine max

<400> 21353

tgtctcagcg tttatgcmg accgaggtct atatgttggc catcatcagc atgtaccaag 60
aggaattaaa tctagccacg gtccacgagc acaaagtggc ggacgagtat gcccgagtgt 120
acgcggataa ggaggctaga ggaaggggtga tcgactcggt acatcaagag gcaacaatgt 180
ggatggaccg atttgccttt actttgaacg ggagtcaaga acttccccga tagctggcca 240
aggccaaagc aatgggtgaac acctactccg cccccgagga gatccacgga cttcttattt 300
attgtcagca tacgatagac ttaatggccc atataattaa gaacctctat gaagtttgga 360
ttgtcactca catcttgact agttataact ttctg 395

<210> 21354
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21354

agctttttgt tnttcccctc tcaaattgac ttctcttgaa agacttgaac tttcatagtg 60
tcacagtctt gagagcttcc cagaaatatt aagaaaaatg gaaattataa cagaacttgt 120

gttggaggcc tctgccataa agaattgcc attttcattt caaaatctca ttcggcttca 180
aatattacag ttgcgttggt gcggaatggt taggttacca agtagctttg tcatgatgcc 240
aagactggct aagattattg cttgggaatt gaaaggggtg ctatttccag aacagggtga 300
gggtgaagaa agagtagctc aatgggtgtc tcaatgtaga atgctttatc tc 352

<210> 21355
<211> 454
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21355

ctanaatatg ataatgcaat ctgggggtgt agtacatgat aattatgttt gaaacanaat 60
gatctgggtgt gatcgagtta cgtgaatcca agtaagacta tccatcaatg ttctatgtaa 120
ctttcaaaat gatgtatatt acaaacagta tacgaaaagt gcaattgcta gagcataaaa 180
gtgttttttg aagtacaatt tcttaacgaa atcttatcaa ttttgttgaa nagaagtata 240
ttggctagct tgtgacaagg agtggtataa agatgacatg gcttctaaat gcaactgtta 300
attaaaaaga gaattagaaa gtgcaaatta gaactctctt ttaagtgggt catgcaantt 360
tcagtggcca gtgctgttaa cataggaatt aagagacaag aatcgatgca nagcaattac 420
aaatcatgtc ttttcaataa gaatattaac atat 454

<210> 21356
<211> 377
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21356

tttcttttat atcgtcttca caacatgaga acaatgtact tactatgagc ttcttaattn 60
ttttcccttt acaccaatt attgctgggtc ttctttatct tccctgtttt ggtccttta 120
ttcagatctg ttattctctg aagatgaagg aaaaattatt ttgatcttat agctttctca 180
atcgttcatg gtttttggtg gtgaatcttt acttcttgc tatagaagcc acctttaacc 240
aacaattaa attcatactg tgctttttga ctttttggtc aaacagatta taagttntaa 300
gtatgttgca tgggtcattn tattgngtga caatctctct ttgcagttat gccctgccat 360

tgcaaaaagc tcaagct

377

<210> 21357
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21357

tgcagaatgc atggtttggc actncattac gttgtntcgt tcggctccaa gtggntagaa 60
agtcttctgt ttgccaattg cattttggaat ggcctgttcc cgaaaatact tccttctctt 120
gagcttctctg atcatcctga tcttcttcag ccgtttgggg tcaacaactt tcttgctttt 180
ttccaatata tctttccttc cctccttata agcttgaatg gttttacttc tctgatcctc 240
tggaataaaa gccaaacttg aaaatatctt gggactcact atctcaagtt tctcagtaat 300
ttccttgaat gctggaacaa ggccacgcct tatgaagcac ccttctataa gccgcctcgt 360
atttaactcg gggagactat gagcatcttt taactccaga tcctagcaaa atgggtgagtc 420
atttaaccac atcctgagag agtgagcc 448

<210> 21358
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21358

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tgttctcac attcctgaga aatataagga cccaagtact ttctgtatac cttgcattat 120
tggaacaac aaacttgaga gtgccatgct agatctagga gcatcagtta gtgtcatgcc 180
tctgtccatt ttcaattctt tatcttttgg atctttgcaa tctacagatg tggtgattca 240
tttagcaaat agaagtgttg cttaccccggt angtttcata gaggggtgtgt tggttcgggt 300
tggtaaactt atttttcctg ttaattttta tgttcttgat at 342

<210> 21359
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21359

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cctcagtgag agtagtcgtt tcattcgcca gatgagtgac gaggtcgtg agctgggtgct 120
tgagagcaga aacctcatag tccctatctt tgaccagcaa gtcgaagtgg aggttcattt 180
cctggagctt gttcttgaaa aagacagaaa cgacgacgtt ttggaggtcg aaggtgaggt 240
tggtgttgaa tgtgacggcg gactagagag agtgaatttg ttggaggtgt tgggtgggtct 300
ccttgagaag gagggcattg aggtttttga ggttctgaat ctgcagttct gaggaggagt 360
catcaaccat ggagatgggt tgttggtctg ctttggggtc cagagattcn gacatacata 420
gacattctct gccagagaga ggg 443

<210> 21360
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21360

agcttttctc agtcgtttgt aaggatgatn ggggtgttaga aagcggcgat gcctactgta 60
gactgttttt ctcccatggt tcagttgtgt gtaacttgta ttttcttcac agatggggca 120
tgcattgatga cccttaacac tgtaaccgct gagattccca tatgctggga agtcattaat 180
ggtacaaaaa agcattgcac gcatttcata cgtctccttg cgaaacgcat canatactac 240
aaccctctcg tcccacaact ttctcagatc ttcaaccaac ggacttagat aaacatcaat 300
gtcatttcct ggctatcttg ggcccgatat catcatagac aacatcatgt attttcgctt 360
catg 364

<210> 21361
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21361

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aagagcacga ttgattaggg aaatatatattt ccatgcatca gcttgtttgt tagaaagatc 120
 caacatatct actgtcgcaa cgtgcccttt tgcgggagag cgaaggcgag gctcacgggt 180
 gcgctttcca aaggaggaaa gatgcgcgga gtcgccacca acgtttatatt gtggaaaacg 240
 tcgggaaaac cgaaggaaat cgggtcaaaaa tgaaaattct aagttcggga gttgtattta 300
 cgtttgagga aggtattaga acctctcacg tttgtctcan aggacaacaa cctatttttt 360
 agaattgtgg aaattgtgtt accttaactn tatttctttt tattttttga ggtcgacaaa 420
 agtggggctc ttgctcctac gtac 444

<210> 21362
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21362

agctttagg attattgtgt acttatcaca tgtggtacta ggtggcggtc gggcgatggt 60
 gcacaacaag ttttccacat ccacaatgg ctcataaacc caccatcccc tgttgccac 120
 ctccatctga gctcacgtac tcccacgtag cccatattct cgtttctctc aacaccgggt 180
 ccccatcaat cctcccaagc ttacacaaca tccaagcaaa acaacattca aacagcacia 240
 gctatcacag ccaagcaaaa caggggcaaag gcagaaaact ctgctcaaca caccaaccan 300
 aatcatagct tttctcactt aaagacccca gtaacaattc cctcgatcca attcggttaac 360
 cgggtggatcg actctaaaat tntactggaa ggtctatata cataagacta ca 412

<210> 21363
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21363

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 catgtgtaac acttgttgta actttgatga acgagactct tgtgagacac aactcaaagt 120
 tcaactactc tccctttttc ttctttcaat ttcgtgctcc cccttctctc tttctctacc 180
 tctttctttt cctccattga agcatcctct ccaagcttct tatccaaggc tcatcttggt 240

ggtgaagctc cttcttccat ggcttattcc ttaatggatg gcacctcctc tcacctcttt 300
 tcctttgtct tccgctgcat ctccatgggtg gaaaatcacc attaaaggat cccattgaag 360
 ctcanagatt cagcctccat agaagcccca caagcaagtt tccatcaciaa gtgatttgga 420
 tcaatggaaa aaataagaca aatcatac 448

<210> 21364
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21364

agcttttaca cattatttta agaaatactt agtatctatt ggtgaaaaat ccgttggtgcc 60
 tgccataggat ttctggcctt gccagctttc tttgcttagt tgttggcatt tttatattca 120
 ccgcatgctc tgcattttct tctgtagtct cccttaccag agtttatttt acattcttat 180
 ggagtattac actactcaag taagactgta acacatggca ctgcggttga ttcaaaaataa 240
 attattaaat taaatnttaa cgggtacaaa actttgtaga gtattagctg gggattggga 300
 gcatattaga atttctcctc tctcatagcc tgcactcttt gctctttctt gctcccacat 360
 tatctnttca tgt 373

<210> 21365
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21365

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 tttctgtctg acaaaaaaaaa tataattgtc gatgaagacg aagacaggat gcggaggact 120
 ataaaacaaa acccatagta aaggtaacga cgcaatgagg agaaaaattc ttgtgcagaa 180
 aaaacacgac agctaattcca acaattattt aataataaat taagttatca aatacactaa 240
 taattaatta atgggcaaatt tcatatattt cattttcttg tatctcactt ttattttattt 300
 attgcacaat catatgtatt actaaatccc tttgttacaa tttactggta ttagttaatt 360
 ntttaataca ataaacatct ttctgattnt tttaatatatt tttaaaaaatt attctactta 420

tatatntttt ataataatta aatcttatat a 451

<210> 21366
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21366

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ctttcttcat gtattttggc atgtgggtga actttggaaa agtgtaacac tagtttctca 120
aagaaactat ttacgctata aatagaagca tgtgtaatac ttgtgggaac tttgatgaat 180
aagtcttatg agacacttca atgttcaact tctctcccta tctttccttc attcccacac 240
cattttttnt ctctctctct ctcatctctt ttctccattg aagtttcttc tctaagctac 300
ttaatcaaaa cactctcttg gtggtgaaat ttcttcttcc atggcttatt ccctagtgga 360
tggtgtctcc tctcacctct 380

<210> 21367
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21367

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actaaaacta ttatgctttt cctagaatgt aaagtgtaat tgcacatatt ctgataggag 120
ttacaaagaa ttgatggcca attgcactat tcttggaaga ggtaaggctc gttatagcaa 180
aaagcttgag aaggttaaag agaagatcac aaaactgaag gtaagtatgc tccagaaata 240
cattcaaaac tgcaacagct cttgaaccaa atacattcaa aacaaaaagg cattatcgaa 300
gcaaattcaa ttgctcagaa ttcaaattag aaagcttatg gcagaggagc atgatttgct 360
taanactgag ccaaaataga acacgaatat gatgttaatg ctagagaata tcaccacaac 420
cacccttca caagtacact acat 444

<210> 21368
<211> 345
<212> DNA

<213> Glycine max

<400> 21368

caagtgtcta acagactaca tgttatgtgc caaaagttga gctttcacat agaaaatgaa 60
attacagagt catttacata tactcttaga atgatgtagc aaaaacaaag cctttttgtt 120
aatttcactt caaatcagag aacactctta acgtagtaag actagttaga acaaccgcat 180
tattttttct ttaatttaca gtagtacaat tatgcggaaa cctcagttac tgcaagagca 240
agagtctctg gcacagtcac ggatgggtca gccactactg gaggtgcaac acaagactgc 300
aacaactgag tgtaatgaaa ctcaatttgt agcctatgat gaaat 345

<210> 21369

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21369

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tttcaggaat taaattgtca tcataaaaaa gggggagatt gtagaaacaa agactttgtc 120
tttgatgttt tgatgatgat cgtgatgata tgatgaaaac gcgcttctca agtttaattc 180
aagacaagga tccaagaata caagatacaa catcaagaag atctctagta ttttaggaag 240
gaaattccta attganatag caaaagggtt ggccaacaaa ttacagttaa naagtctttt 300
tcaagagatc tactctctgg taatcgatta ccagaggatg taatcgatta ccagtggcca 360
aatggtttac aacaaccatt aaaaatttg 389

<210> 21370

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21370

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caatgatttc aaaacagaac gatgttggcg cttagcgcat cctttccgc taagcccact 120
tagcgcatca tccacgctaa gccactgct taagggtgcaa cttacaatga agatgttggg 180

cttagcgcag cgatgtgcgc ttagctgaac cattcagcca atcaattang ggtctttgtg 240
cttagcgtga gcaagctcgg ctttagcgcgt gaaaagatgg cgcttagcac aaggttngcg 300
cttaacggat aagcaatctg aaattnttct aagtcatttt ctgcttatct cttcacacat 360
aatttaaaaa ccctntnttg tcattactac ataagctgaa at 402

<210> 21371
<211> 436
<212> DNA
<213> Glycine max

<400> 21371

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ggaatcttct ggagggccca agtgggcctg gttgttattt gcacccccct ttttactaaa 120
tgcaccccat ctatTTTTTT gataattctt tttccgtaac gttacgaaac tttgcgactt 180
tcgtaacgat acttattttt cttccgcaag gttacgaatc cttacggatc atgtatttac 240
tttcttttag ctttcgaaga agttacggaa actcacggat tgcacaaaaa cacctctttt 300
cgatttcgcg cacattacgg aatttcacgg atcgcgcaag cctgcttcct tttgatttct 360
gagacgtctc gggactttat ttatttcata tcatcaagta ataatccccg gacgaaatta 420
tggtatgaca agcatg 436

<210> 21372
<211> 288
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21372

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ggacgatgtt cataagacgg ctttctgcac gcaccaggga cactacgaat tcagagtgat 120
gccgttcggc ctctgcaacg cgccgctcgac gttccaggcg gccatgaacg ataccctcaa 180
gcctttcttg agaaaatacg tggccatttt cttcgatgat attttggtgt ttagctccga 240
tttgacacg cacgtcacac accttgaatc cgttctagat accctctc 288

<210> 21373
<211> 440

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21373

 ntgacatcaa aatttgtttt ccctcttggg tgttgctcta ttggaagaca aaaaatgatt 60
 gtctacaagt acatgccctg nggtgctctt agtcaatatt tgttaaattg gaaagctgaa 120
 ggggttacaac ctctggattg gagtggaaga caaggctaag aattgccttg gatgttacta 180
 gaggtgtcaa atattctatt gcatgagcaa ataaaatttt atccatagca atataaaatc 240
 atctaccatt tcgttgggag aagatatgca tgccaaagta tcaaactttg gattgggttcg 300
 gctttttacgt gaagggaaga attcatgtca aaccaaacta aaggctggaa ctattgtata 360
 ttggcaccta agtatgttat gagggacaca ttgcaacaaa ggtggatgta tttagtttca 420
 atgcaatcct tatgtagatg 440

<210> 21374
 <211> 400
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21374

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 ccctagtggg tggtgctcc cctctctctt tctcctttgc cttctgctgc atctccatgg 120
 tgaaaaatca ccattgaagg acctcattgg agtcataga tccagcctcc atagaatctt 180
 cacaagcaag cttccatcag ctgtcttact ggtttagcct caccctctaa atntatccga 240
 tgcatacatg tggatgggct aataccacca atgtccacca nggtccaacc tatagccttc 300
 ttatgcttct tgagaactga taacaacttc tcctcttgct catcaactag ggaggcagat 360
 ataattactg ggaaactttt gttatcatcc aagcaagcat 400

<210> 21375
 <211> 422
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21375

tatagganaa ccattcgcat tgttgccctt taatttcct tataaaccca aaactgtctc 60
 ggtaaaacta tgatcctggt tttgttaacc gttggatttt catgaaattt ggatatgttg 120
 ctcgaaattc aattggggcac accgttgga tttgcgagat aatattcttg gagggagaaa 180
 aaggaatctc atgaagacaa tacaagtga ggtttcaatc tcttctccgt ctctctgacg 240
 tttgggaatt ctattggagc agtaggagga ataactgaag gaatctcang gaaccgctag 300
 agatgctgct atccctggct gaagacacgt gagtccgctc agaggtaagg gatgagttat 360
 tcacaattgg gaattagtga gaacatgtgt agggatcctt agagatatca attggaatga 420
 gt 422

<210> 21376
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21376

tgctcgcaag cttttgcatt gcagnganga cctatcatca aagctgggtt tggaggctct 60
 tttgagaact cgcaatgatt gggaggcggc tttcactttt ttcttgtggg ctggcaagca 120
 accggggtat gctcattcga ttcgcgagta ccattctatg atctccatcc ttggcaaaat 180
 gaggaagttt gatactgctt ggaacttaat tgaggaaatg agaagaggta taactggtgc 240
 atctcttgtc actccccaca cactgttgat tatgatcagg agatactgtg ctgtacatga 300
 tgtngcaagg gctatcaata ctatctatgc ttataaacag tataactctc aagtgggcta 360
 gatgaattca taaccttctt tc 382

<210> 21377
 <211> 353
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21377

tatntaagca taatcaacgt ttactctggt ttntctattt tatatcacgc atattacaat 60
 ttcagattgt tgtaattcg cgtcacagta gtaatatgtt gaataagtta ttttagtta 120
 tccttaattt tttattaact gagaaatctg tttagatgca aaagaataag ttttttttag 180

taattgttaa tgtctttttg aaacactttt taaaataata tcttttataaa ccttagtcac 240
 taactgttta tattttctct cattcatata tccaatatat ttatctaatt tattaggtac 300
 actttgtaaa taaatcatta ataatttttt tttcatttta cattttcagc tac 353

<210> 21378
 <211> 364
 <212> DNA
 <213> Glycine max
 <400> 21378

ttagctttta tacttttatac aagaatgaag ctctgatacc acttggttaga caagtggcct 60
 cagatatcat aagaaggggg gttgaattaa gatattccaa actacttccc caattataaa 120
 tctatatcac tttttattca agttataaat gcccttaata atgaacttct taaatattga 180
 ttcacataaa acactctgaa tatgactata tagcaataat atacaaagga gattaagaga 240
 agagaaagtg ccaactcaga tttatactgg ttcggccaca cccttggtgcc tacgtccatt 300
 ccccatgcaa cccgcttgag agttccacta tcttgtaa at gccttctaca agctctaaac 360
 acac 364

<210> 21379
 <211> 423
 <212> DNA
 <213> Glycine max
 <400> 21379

ctgacattag tgttgaatgc attatttgta aacagtatct ttgacagaaa ttaggtgcat 60
 atagagttac agacatcttg gaattgatac atacagacat ttgtgggtca tttcctacac 120
 cttcatggaa tgggtcaacaa tattttatat cattcataga cgattactct agatatgcat 180
 acttgtttct tatacatgaa aagtcacaat ctttggatgt gttcaaaaca tttaaagttg 240
 aagttgaaaa tcaactcaac aaaagaataa agtgtgtcag atctgaccgc ggtgggtgaat 300
 actatggcat atatgacggt tcaggtgacc aacgtctggc gccttttgcc aggtacctag 360
 aggaatatgg aatcgtccca cagtacacca tgccgaggtc acctatcatg aatgggtgtgg 420
 ctg 423

<210> 21380

<211> 397
 <212> DNA
 <213> Glycine max

 <400> 21380

 ttgcttttttc atttggttggg tacaagacta ctttctctat tgttggttttt ttcttcggac 60
 attgtaatat tttcatgttt gactaccttt attgatgttt atgggttgggt ttgcagacta 120
 agacactcct tggatatttg agagaatcaa gacatgaagt gtcttcttca agttactttt 180
 atcagccaaa aaaatattat taaaatagggt accggcagta ccatagagac aacaaagcag 240
 tgtcacatag ttacagaaag agaaaacccc aaaagtagaa gatatctctt gcgtaactaa 300
 gaacaacgga taaaagaaca ccaaattaac cctcatttct aaagatgtaa agaattgatc 360
 tccttctaata aacttcccca cacctcaaca tgcacct 397

<210> 21381
 <211> 435
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21381

 tgtattttaan aatgttttan aaatactttt aattaatatt taaattttta ttcttttatt 60
 aatatatatg tgaagggtag aggggtgtcac atcacacctc ccccttttca tttttcttca 120
 ttcttatttt catccttgta tccatttacc aatggatatat gcacaacca gaccagttga 180
 ttgttcggtg ttgcgcttat aagacaatca tatttcaaata caagtgtggg aaggccaaga 240
 gagaatcatc catccgaggt atacttctgt ttgggctttt agccacttgg atcaaataga 300
 taatcatgta aaaaaatcta atcaatttag ctgggttcgg acatattata aatgttggaa 360
 aagttgatat taaccaacat ttggttagtg cgttggttga acgttggaga acagagacag 420
 gcaaccatta ctta 435

<210> 21382
 <211> 311
 <212> DNA
 <213> Glycine max

 <400> 21382

 agctttataa cagatttttag taatgaccca ctaacctaga attaaaataa cttaatgcc 60

ttaacctatg gaattaaaaa aacttaatgg ctgagtgtaa ctgaaattgt ggcaacccaaa 120
 agtcaccccc aacagccaac aagtcagcca ccatttgggc tccccaaaagg ctgatgccta 180
 tgttgccaat tggggccctta ttacaacttg aactaaacct aactaaagcc ctttttagttg 240
 attaacccaa aacatatttt tggtcagcca actttacaag gattggggcaa ttatttagac 300
 aaactaaaca c 311

<210> 21383
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 21383

aaagctctag atgagggttc actgtaatca tgcaagtcgg agacctagca tgatcccaga 60
 ttcacctccg ctccttatgt tcccatgaac ccgggtatag ggcccttttt cactcacagt 120
 gtgtgcaa at agtggttggtg tttgtgtgca tcaaataaat aaatattttac cctatgcata 180
 ctttttaaaa tgcactaaaa gcaacaaaaga gtttatatac ataagaacat aatgaaggga 240
 aaccaacaaa gggataagtc atggtaaaac attgcacaag attaaatggc ctaactctct 300
 aaaaacaatc ccagtgaggag tcgccaactg tcgcaacctc cccttcggcg ggaggggcgac 360
 gcgagactcg cgggatgcgt gttccacgaa aggaatacgc gcggagtcgc caccaacggt 420
 tatttgagga aaacgt 436

<210> 21384
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21384

agcttttata gcatattcat ctacaatctc ccgctttttt atgatgacaa caatctgaaa 60
 acaagataaa cgatatacga tttgaaatgc gtgcactcat ccttactccc ccttaaattt 120
 gtaattttatg gcctaatttt tagataaaat ttacctttag tttctctccc cctttggcaa 180
 catcaaaaag tcaaaaacgac cggagaaaaa aacaaatcca gagaatatcc aaagcaagta 240
 gcttaactcg tcaaaaaaact aaagcaaaca caggctatat atccaaagaa nattataagc 300

caagcaaagt ctaaatatcc aaaccaaagc at

332

<210> 21385

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21385

tgtcaattct cttgtgcagc tcgggatcag aagggggagc ttccggtgtg ttgagcagga 60

gcagaatcat aaaacggaga tggaacaaga ggaggaggat aatgcgaagg gtatgcaggt 120

ggtccttggg gctgctgctg ctgctgctga agtagaagat gaggcggggg aggggcatga 180

gggtgtaatt gtggaagtgg ctgttgctgc tgctgcaggg caggatgata agggaattgt 240

tgcatagggg ggtgtgcagg accaggacct gnggggataa aaggagaacc gtgcattgac 300

gaaggaaact gctgatgctg gggatgaaat ccaaactgct gctgttggtt catattagca 360

gcttgctggt gttgctgagc atatgccata gcagatgcag ttgcataatc atgaccctgg 420

cgctccataa cctcaacagc act 443

<210> 21386

<211> 350

<212> DNA

<213> Glycine max

<400> 21386

agcttctaga gaagtctgca cttcacgtat agatggtctt acgcattggc cgatgtcttt 60

gtttacttac tttttaagct gcagtttttg tactatgata tttgtactca ggcttgggtt 120

atgcacttct tatgctaaaa ctgggttttc ttaataaat acatttcttt ttgccttttt 180

aaaaaaacac gttgatttat ggaaatttta ttgtcgaatg aaattgttta tttaatgtac 240

gaagacaata aatgcacaac tttgatttcg aaacaacttt tcagaaatcg tcattcatgt 300

tgaacttgca gctcttctgg aagaacatgg agggacttga gatctgatat 350

<210> 21387

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21387

taacacatgt agcatgaaac cttanaatga ccaacatgtg tgttaccctc tttgttcage 60

cgctaggggtt tgggtcccaa tgcaattgac ttagtcattt atcgtgtatg gcaaacaact 120

ttgcttgatg agtttaaata tagttacatc caacaccaag atattagatt gtgtggcacg 180

catatTTTTtA tttaaaatta attccaaaaa ccattggaaa ataaagggtc atcaatttat 240

atatagctcg tgtgttaaata gttttttata cttctgcttt ggtgctgctt ttgaaaatca 300

ctactagatc tnttggactg atctgtgata aacttgggttgc tcatgttaat ttattttacca 360

taatagtata atgttaggga acaagaattc gtgggataca actttggaaa aaaaaaaaaa 420

aaagcgctgt cat 433

<210> 21388

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21388

agctttgcat acattatatt taaaagaaag tagagtaatt atttaataata ctttctgttt 60

agtttttagat tttcccttac aagttctact actaaaattg tgagacgcgg ccaactaaac 120

cccgaaaagt aataaaatga taaaagttta ttttttttgt tagataaaaa tgttctttga 180

aatccaagt tgttatTTtA ttgagttcaa aattctaaat gttgtgtgac ttaaataaaaa 240

atattagcat atcttgaggg actaaatgac aataagtatt aagtttagga aataaactga 300

tacagtaagg aatttcatta tntactttta gggattaaat taacactatc tcacactttt 360

aggaaagaat ttgnattatt atttatctta natattttaa ttaata 406

<210> 21389

<211> 446

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21389

aactcagctt aactggggcg ggacagaaat tggtagctgg ttatagtata tgttgagatc 60

actggaaaca cgaataatac ctttcttattc attaacaggt gtgaagctca aaggcagacc 120

taagtcacca tcaacagcta caacatcaag tggacaatct acatcggttc ttgccgaagc 180
aaggccaccg atatcgaggg aagccggaac gatgtagtaa atcgaatcag ctcgaaacttt 240
cttccccaat gcgtccagca ctggctcgga tgcaggacca gctagtgcct ttgtgatcaa 300
ggcaaacaca aggaccaatg ttaccaatgt catcttcatt tttatgtatc taattntgtg 360
tttttgtaac ttgtaatgga tattgaagaa gagggatatt tatatatagg atggngattg 420
ctctaatacta tgtacccatg tgcacc 446

<210> 21390
<211> 391
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21390

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tcaagtttta aatgaccttg ggatagattc ttgaaatctc ttcgtagggtt tttataagct 120
tttgagacaa tatatgagta agatagaagc tcatgataag cttttctaag agatttagga 180
tcatcaaaat ttacctcatc tttttggtat aactcanacc cttcaaaaagt tatgtccgcc 240
atcatccata tgttggtctc ttcacgtctc tctctgaca aagtgtcgtc cagggtctct 300
catgtactca taagccccctt cttttcttta gtgctaaaga atntcttcat atcttgattt 360
ttctctaaat ctggacattc agacttgaaa t 391

<210> 21391
<211> 450
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21391

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tataatgata tgtacaatga aaaattacca agtaaaacttg ttggctacta cttcagaacc 120
tactcgtaaa tgatacaaaa tctattaacc atagtttcta gttctcagtt gggtgcacta 180
agtatgggtg cttcttaata gtaaaattgt tttatataaa tcccatgatc aaggatcaag 240
tttaagggtca aaacatgctt ttgaagaaac ataattaact gcataacaat agtaaaaaag 300

aagcaataaa aaaggacaca acacatcaag gagttatact agttcaccca acttgggcta 360
 caccaatccc tacaaatgta ggctntccac taaaaccaag catcttgtgg tattctttct 420
 ttcttgaagc cttcaaaggc tcctacaact 450

<210> 21392
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 21392

agcttctcga catatgatgc gcccgaaatcg gacatccgtg tgaaaagtta tgaccattta 60
 aatttcgcga gagttttcga tgtttaattt cgagcgtatc gatataattat aagcctgagt 120
 cgtacatccg tgtgaaatgt tatgaccatt tgaatttctc gagagcttct gttgttcaat 180
 ttcgagcctc tcgacatatt atgcgccga atcggacatc cgtgtgaaaa gttatggcca 240
 tttgaatttc tcgagagctt ccgatgttta atttcgagcg tatcgatata ttataagcct 300
 gaatcggaca 310

<210> 21393
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 21393

ctcacgctta tgatatattg atacgctcga agttgattta cacaaactct cgacagattc 60
 aaatgggtcat aactgttcac acggatgagc gatacgagcg cataatatcg cgagggggctt 120
 gacattgaac aacggaagct cttgagaaat tcaaattggtc ataccttttc acaccgatat 180
 cctattctag caaatcacat atcgagacgc tcagaattga acaacggaag gtcttgagaa 240
 atacaaatga tcttaacatt taactcgaat gtccaattta ggcgcatcac atatagtgc 300
 actcggaatt gaacaacgga agctctcgag acatctagat ggtcataact tctcacattg 360
 atgtgcgatt cagccttata atatattgat atgctcgaaa ttaaacaatcg gaagctctcg 420
 agatattcaa atggtcataa cttt 444

<210> 21394
 <211> 373
 <212> DNA

<213> Glycine max

<400> 21394

ggagaaacat tatgggatct taatcttgag ctctaataac tctaaggcta tgtttgagaa 60
acacatgaat ataaaaatca gaaccaatga acgaaaatgc acaacattta accaaaaaaa 120
tacattcaat tacgatgtaa tgcatactac cactctgcat aaactataca tttcacgtct 180
cttgatgaag atatcacatc gactagtgtt gagaccacaa taatatatat aaataagaga 240
caatcctcat cttacaaatt gatttcataa agttgagtta gattaataac tcacataata 300
tcctagcgat tcgttgtcga gtgttacaga tctcacatct attatggtag gttcgaatta 360
ttgaacctca tct 373

<210> 21395

<211> 414

<212> DNA

<213> Glycine max

<400> 21395

gacctaacaa actcagcttg accccttaat cagccttgag actattgtac taataatddd 60
agatacataa cattatdddag attagtggcg ttcacgatga tgaatatgag atagtctgca 120
gccaaagtgt taaagctgtc gctgggggcat ctgatataa ttaacttgaa ttataagggc 180
gtgatgatta acttgtgtgc gcgggcagag ctgatgtaac aaagcaacac gagcaacctt 240
atcgttcata tggggggggag ataatacaaa acaatgaatg ggggtacgta tatctgacta 300
gaacatatgg aatagaagtg gcattgtgtg atattataga tagttgataa tggaaccgaa 360
aacatctddd atdddattgt gaggaatagg gatggaacat actggagtat aacg 414

<210> 21396

<211> 349

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21396

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cccgtaatat aacgagacgc tcgaaattga atattgaagc tctgaactag ttcaaacgac 120
aataactddd tactcggatg tctgattgag tcccgtaata tatcgagacg ctcgaaattg 180

aatgttgaac ctctgagtaa attcaaacga caataacttt tttctcagat gcttgattga 240
gtcccgtaat atatcgagac gctcgaaatt gaatgttgaa gctctgatcc aattcgaacg 300
acaatacctt tntactcgga tgtctgattg aagtcgccga tatatcgag 349

<210> 21397
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21397

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agttattgtc gtttgaattg gctcagagct tcaacattca atttcgaggg tctcgatata 120
ttgcgggact caatcagaca tccgagtaaa aagttattgt cgtttgaatt ggctcggagc 180
ttcaacattc aatttcgagc gtctcgatat atgacgggac tcaatcagac atccgagtaa 240
aaagttattg tcttttgaat tggtcagag cttcaacatt caatttcgag ggtctcgata 300
tattacggga ctcaatcaga catccgagta aaaagttatt gtcgtttgaa ttggctcaga 360
ggttcaacat tcaatttcga gcgtctcgat atattacggg actcaatcag acatccgagt 420
aaaacgtta 429

<210> 21398
<211> 385
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21398

agctttataa agaccatgat aaatagcaat gagttatgca tgcatactag ttgtaaaacc 60
acagtaccct agagaaggca gatattcaat tactaagata gtgtcgaagg atatcgtcga 120
agcctaaacg accaagactg cctttggaac tcccatcagt gttgacctta ataaaaaaaa 180
aaaagacctt gtggcggctc ccaattgact tgacaagaag gttgaatcta acagggcatgt 240
tgaaaggcca ccatcatatc gctatagata gtttgaacct gattaataag acgccaaatg 300
tctagattct tatcgtanaa aactgaagca ttctttgcct tccanagagt ccaacatgtc 360
accacataca atgaactact atagc 385

<210> 21399
 <211> 376
 <212> DNA
 <213> Glycine max

 <400> 21399

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 ggatcaccct gaactgttct ttcactttct ttgaagttaa tgctggaaga agtctatttg 120
 tatcatttgg aaagaagtaa gcttaagctg cctaggatat tatttttaat gttgagaaga 180
 ttttcttggg tattgcatga gtgcctcatc cacgaatgta aaattatttg tctggctgaa 240
 gaccttaaca attattagtt gttcgagtga gttcatgcaa tacttacact aagacattta 300
 ttgcgattga tggagctgga aagcgattag ctgatgaagt gagtcccgag acatgcatat 360
 gtatgtatct caagtt 376

<210> 21400
 <211> 412
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21400

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 ctagtgtcca ttttttgaat gaatgaaggt tgaaaatcga actttatcca gtaagagaca 120
 tccaatgttt ctgtggtaat ccaaaaaaac ttatctgagg catagctcaa tagttcaaat 180
 aatgattatg ttaagattgg aagtatgata atattacaat ttacaacgaa cctttactgt 240
 aacagttggt ccagcattcc cccgaagcct ttgtgcagca gtttcaactat caatgccatc 300
 aagcctctca cctgtagaat ccaattatit tcagaaaaga aaatcacact tgtttcactt 360
 cagacataaa anaattatit cctactaata attgactgaa acaagctgga aa 412

<210> 21401
 <211> 440
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21401

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 tcaactttctt tcttcctttc tcttgcaaaa attttgtgga ttttccattg atgatgatca 120
 tggaaggcta aacacttaat caatccaagg atccactcca agcaaggctg aatttgagtt 180
 ctgggttagt atttctaato tttgtgaatg ttcactcttt tcttcattcc tattttcaat 240
 tttcatgatt atgattatgc ttaggattca aaatggatta agttattgat tcatttccta 300
 atttcaaaat ttaatcccag attgtttgga tattttccaa cctaataatgc gatctcaaac 360
 aatttaggga tgtattcgat tgaactatct ctaatgcatt ngattgaaat ttcacactct 420
 gaacatcatt catagtaact 440

<210> 21402
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21402

tcttctttat tctttggncc tctcatagt tgtggcatga gaaaacatgc tctattttca 60
 tctccactc caagtaggcc tncggatcat tctttccttt aaatggagga atgttgagtt 120
 taataccatc aattcggttt tgtctaagaa caccatcatt cctctctctc ctcctttctt 180
 cttcattatg atctctattc tccatttgat ccaacctctc atggagcgca tcatctcggt 240
 gtttcattaa cctctccaaa tgttgcatca aagctcgcat ttggaattgc gaaagccnca 300
 ctccatcatt atgattagta cctgacatct canacaaaca aatcaaacgt aacaagacaa 360
 ttatagttgc tgtttgaata cctcaccac t 391

<210> 21403
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21403

ctcagcttgt tacctatgat gaattgcttt tttagagttg nttatatcac cactaattgt 60
 tctccttttg aagttgttta tggttttaac ccactaactc ctcttgatct tttgcctatg 120
 cctaattgtt ctgtttttta ggataaagaa cgtcaagcaa aggcggacta tgtgaagaag 180

cttcatgaga gagtcaaaga tcaaattgag aggaaaaata aaagctatgc taaacaagcc 240
aacaaagggga gaaagaaggt tgtcttcgaa cccggagatt gggtttgggt gcacatgaga 300
aaagaaaggt ttccggaaca aaggaaatca aagcttcaac caaggggaga tggaccatnt 360
caagtgccttg aaagaatcaa tgacaatgct tacaaagttg agctgtccgg tgagtataat 420

<210> 21404
<211> 385
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21404

tctgcttatg cgcataattg cttacaaacg ttctcttgca caagacattc tattaaccga 60
aaaaaatgca cccatataca atcaaggcag cttcgttacc tagattatnt acacgtactt 120
ccaaggtgta tttgttactt acatcacaca cctccttggc taaattcaca tacatgcata 180
ctcaaagcat tttggggtac caaaaattgc acatgtgcac atcttgggtat ttcacaaact 240
tcatgatgaa tcttgactat ctacacaata aggtgctaca ttgtatgctc ttttcaagtt 300
attgctacct aaagccgcat gcaaattcca gtatatnttc ctttgttgac taaaattgta 360
ttcagattaa aaggtatata ttttt 385

<210> 21405
<211> 436
<212> DNA
<213> Glycine max
<400> 21405

tgcttgtgga gcttctatgg aggctttatc tttgttcttt attgaggtcc tttaatggtg 60
attttccacc atggagatgc agcggaagac aaaggagaag aggtgaagagg cggcgccatc 120
cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataaaaa 180
gcttggagag gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gaggggggag 240
cacgaaattg aaggaagaaa aaggggagaga agttgaactt tgagttgtgt ctcacaagac 300
tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct 360
tccttgagaa gctttcttaa gagaacttcc ttgagaagct tctttgagaa aacttccttg 420

agaagctaga gcttag

436

<210> 21406
<211> 299
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21406

tcaagcttct tcctctntnc tcctatatat agggggagga gggaagaaca aaaatgttca 60
accctcctgg tatctgagaa tcacttaaaa ttagtgagaa aaattgtttc cgtgaagaaa 120
atccaagccg aggcgcttcc gtaacgcttc cgagacgttt ccatgggtga tttcaagaag 180
attntctacc gttcttcgtc gttcttcgtt cattatttgt cgttcccttt ggaaagaact 240
acgtaggttt gatttcctct tcgatggagg gtacgtaaga gcaaaagccc cacttttgt 299

<210> 21407
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21407

tgccattcan agcgctgtgg gcctgngaaa atgcggtgta tttctagggt aatgtggtag 60
agccctgggt gagacgagtc actgcttcaa gttggtcaat ggtgggctga cagatattgt 120
gttctggcat ggtgaggtag aggaggagga ggctggtcag accaattgtt agtgttgaca 180
gttgatgtc tatattaaga attaattaga caactggatg tttatttttg caattaattt 240
tctagaagat tgaataattc agatcaagat catattattc caattttgat atgcttttat 300
tattattttg ggtcagaatc aaatctctct tatttgatct gatccctttc tatttacttt 360
tctttctgca tttattatgt aattggtagc cttgcctata tatgtaaatc ttttattcct 420
aaataatata caagaattat tctt 444

<210> 21408
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21408

agcttcttca caatttttta attagaaaca caatcaatat attattagtt aagaaaaatc 60
 atacatttta gcaaataaca acacatgtca atgagtttat taagaaggat ctcaatttga 120
 ttctaacata atatatcttt aaagaaaaac aaaattttttt aagtttgatt aaattttgaa 180
 cttagaatta attttataat cgatctaaaa gattaaaatt ataaaaatct tacaaaattt 240
 caaaaaagaa aaataaaaaa tccttattat taatatgggt aaaaaattat atattaaata 300
 aanattgaa ttcaccttcg ttaataaatc ttatatgaag ttcaatcaat aataaagtaa 360
 tgacaacaaa tgtattatta gcttttaagg gattttattc gatcacat 408

<210> 21409
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21409

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 ttttatttagc attttgtag ttgaaataaa ggcccaaact tgtgttgaag tggctgtcaa 120
 ttctcttttg atttgcacca cctatgggct tgttttaatt tgaagaaatt aaggtttaat 180
 aaggtagaaa ctctaggttt gtggctgcct cttggctgac taggagttgc acatctttcc 240
 acatgttttt gtgtcttaat tctagtttta attaggtata atgacaccat caattgttgt 300
 tattggtgat aatttgtctg aattctagtt ctaattaggt ataatgacac catcaattgt 360
 tgttattggt gatcatttca tcttttcata accaacttga tgccattcct ttntatgggc 420
 tgcgcatttt ctaataaa 438

<210> 21410
 <211> 448
 <212> DNA
 <213> Glycine max
 <400> 21410

tggtctctgt agatcttcac agaacaaaat ctcttagatt tctctggaac ttataccttt 60
 ctctctctag aaaccctaga catgcaaagc tctgaatccc actccaaact ccccttctaa 120
 aatctgattt cataacttaaa taggtggcct tgttcatact cgtgcgctta gcacatttat 180

ggaccgctta gcgcacatta gtgaattttg gcttagcgcg tgcctttctc gcttagcgga 240
tgaactgaag tgggtgcgctt agtgagatga agtgggtgtgc ttagcaaacc tgtacaactc 300
attttcttcc agagtcttcc tcgcgcttag cccatgagtg ttgcgcttag cgaacgctcg 360
ctaagccagc agattggctt agcgagaagg tgaaaaacaa cactttccaa agcttgccta 420
atgaacctga aattgagaca aaatgatt 448

<210> 21411
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21411

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aggggtgtagt aagcaaagtc tcacctcccc ctctaaaatt taattggatt gggcttctac 120
caattcaatt aaatttattt cccaacacac atatcaaata ttacttagt gcatgtgaaa 180
ttacaaaact acccttaata caaaaactag tctaggtgcc ctaaaataca agagctgaaa 240
aatcctatat ttctagggta cctacctac attatggagc cctanataca aggaccaaatt 300
ataatgacat cctagtctaa tatgtataaa gataattgga c 341

<210> 21412
<211> 451
<212> DNA
<213> Glycine max

<400> 21412

tccaagagtt cggcaagctt ctactattac tttgattagg ttacttttgt ttgttgtttc 60
attagtataa taaaagcttc tatattttgc atctaagatc acacaagatt cctgtcggta 120
gtctgaatga gaactttata gaacaccctt ttgaattttt aagtatgaat ttttgtgaat 180
tcgagtaagc aagtaatgat attactgtgt aaaaaaagat aatgatatat attcctctgg 240
acttaaatat atataaaaaa actaactcaa tttaatgttg ataattctcat gaaaaaagtt 300
aattcatttt ttaaagtacc atttatatta attgcatagg acaaaaaaaaa taaggttatt 360
gaaaataaaa ctctaattaa ataaagagta ttttggggat attataatta aataggagag 420
aattaattaa aatttactta tattttaatt c 451

<210> 21413
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21413

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 ttgatgtgtc attattttct cctatttctt aactcttttt atcaccaatt taattttctga 120
 ttaactctaa ttgtcgaatt tattatttag ttttatcaat tgggccact tgactaattt 180
 ggtgttttta attcaatttc aggataatta taagcaattg ggctgagcca aattggactt 240
 gaagagagaa gacaatttta ttagatttcg tctaatttca ttntattgca ttcagttntt 300
 atttagtatt tttatttcat tntagaccan aataatgtaa tcaggcccag tgactntgag 360
 tgatccttat aaatagcagc cttgggattc g 391

<210> 21414
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 21414

gactcaagct tgtacttgta cttgctattg gcagattaca tgcattactt cttcctttct 60
 ctctcatcaa cgtgagtggg cattttattc tttttctata attacggggg taataagatg 120
 aaacaatagg gtgatgaaac gaataggggtg tcctctcact gcttgaagca tccaattttt 180
 atttttatth ttatggtaga acatattatc atatcttga agcatcagct gtgactcggc 240
 taaaggctac cgcggtcttt gagccagatg ggcgcccacaa atgcttgccg atgaactcac 300
 cggctaacat gagctttccg agatcaacgt tggttttcac cccaagtcca ttcagcatgt 360
 acacaacatc ttcggtagct acatttcttg aagctccctt ggcataagga cagccaccta 420
 gaccagcaac tgaagaatca actgcactga tccccatc 458

<210> 21415
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21415

agctntttct ttgactttta ctgggttata tacgccatgt tctaattttt cactatagaa 60
 tagattggta gtatatataa tatatgaatg gctatttgat gactgattca gtcacttaaa 120
 tgaattttgc aaattgacat ttgcacagaa gttttgaatg ttgatgaaat aaatttggtg 180
 tacttaactt aaccccatga tttgatgtcc cgaataaaca atattgtctt gtcaatatga 240
 tacgtagtgt ttaaggtaat ctccacggta ttgaagtgtt tttaaatgaa agacaagcca 300
 atatctttta gtattttttt tctcaacaaa ggtgtatttt caat 344

<210> 21416
 <211> 268
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21416

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 acagaagtgt tctcaaagaa gcttctccag gaagggtgtct caagaaagct tctcaaggaa 120
 gctacctagt ctatacaata gaagcatgtg taacacttgt agtaacttgg atgaatgaga 180
 gtcttgtgcg acataactga aagctccact tctgtcccta ttttattcct tcaattacgt 240
 gctccccct ctctctttct ctctatct 268

<210> 21417
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21417

agctntttta cattctaaac atgcgaacta aagactgaaa ttaaaaaactg aaacagaaat 60
 ataaacccaa attataaagt gtactaaaag caggaaatga taataaaagt gttcaaaaga 120
 caggaaaata ggataaaagt cctgtcatgg gtctgtcgt gcaaaaggga cataatccat 180
 agctgctgca tcctctcct ccttagagag ctccagtacc agtgttgtca ctggggatgc 240
 ctgcggagta gagagctcca gcacaggtgt ggtcactggt gatgcctgtg gagtcgtctc 300
 tagagtggcc tccgcagtgt cctcctgagt agctgggtca gtctctgggt caacctctgg 360

catgtc

366

<210> 21418
<211> 440
<212> DNA
<213> Glycine max

<400> 21418

tgggaagtct tgggttcaatg gcatggcttt ttcccagatt atattttcttg ggaggattgg 60
tctgcttttg ttaatgacta tcaccttgag gacaagggtga tttcccaagg gccgcgggat 120
gatatggaaa acacatatca cagagtaggg gtacaaagag aacattctgc agaggtgcag 180
aatatggaaa agcccataag gagagtaatg aggccagctt accttcaaga ttatgcgtaa 240
gggtagaaaa gggattagtg ggatagtgcc gttagagcac gggacaagct taacgggtatt 300
gattctgtga tatttctctt gcacaaaaaa gataagaatt ctgctagcat aggatagtat 360
gaataacgtt gtatataaaa tcagaatcat aaatgagaat atattttctt gccttatttc 420
tttccccctt acttctatgg 440

<210> 21419
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21419

cccgggatcc tctgaggcga tctgctgctg nctgcttttc tgagcactga tagggaagct 60
tgaggcatgc tgggtacaat cttttctcca cttaagatag actaaatcct taaagcaagt 120
tctgtggtaa tcagctctct tccatgctgc caaaaactct ggaagacaag gaatcatctg 180
tcaaaaaaac cagaataacc aatttgagat aactatccac tacatgccac attataactt 240
tctcttataa gaatgcctat acataattat attatcataa agttccccct tttcttacat 300
acacattttc ccctgtgctt atcatthaaca canatgaatg aggaaaactt acaataagaa 360
ttctaggctc tgacctctca tcattgcctt tctttccttt gaat 404

<210> 21420
<211> 358
<212> DNA

<213> Glycine max

<400> 21420

cccttctaca caaggctcta taccggtagc ttagtagctt gctcgtgagt tgtgctgcgc 60
tatatTTTTT gcttaaaaaa aactacttca ttgggggggtc gaagtggaac tttcgactct 120
ctttatttga agactataca taaaaagcgg attttgcgtg ttataaaatc acacgcacat 180
gtcttttttat ggaatatgat gatgggggtg gtgatctttg cttgcaagat tggaaggatc 240
ctaacgcgac cgacactaaa catggtatgt gttgtctgac aatatgaaat gaagagtatt 300
atgatatcgt ttaccgaatg ttggtgcaa tgcaatggct tactggggga atatagat 358

<210> 21421

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21421

agctttttgc ttcttgtcat aacaactttg cactattctt tgggattctt ctcaagtattt 60
gctccaaagc tactggatga cttctcaact atatgcttag ccagttgacc cacctggatc 120
tcaagatttt tcagggctga ctcaagtctc ttatgattgg atatagtcac ttgaatgaat 180
tgagccaggg tctcctccag cttggtagtc ctctgaaaaa gagtaggccc ttgttgaggt 240
ggcctattgg aaagttcacc ctggctctta ttgaattgat tgccaagggtg tgatcttcat 300
tgaccttgct gattgtangg accttgctgg aaacctgaga atcctcttgg ntgacccttg 360
ccttgctgat tcccatgtan taacttcat 389

<210> 21422

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21422

ntggaagaaa gtgatgaggt acaagcccta taggcaaatc ttgtaagagc ccgggtagtc 60
aaagagaagt tcaagtccat agccatcaaa gtctgaagag agtatgatga actaaggagc 120
gttaatatgg ccaccgatga agccttgga tgagaaacca agaaggcccg aaaggaagaa 180

cacgaccaaa gcaaagtttt gaggggcttt atagggcagc aatagtgagc tcaagctccg 240
aagaggtgaa aggaatcatc atgggtcaaa ggcatgatct tgaaggatga gctaaagggt 300
ttccttatgt cgaanagaaa tttgtcccaa cagttaagcg agactgaagg gaatatgtgg 360
gccatcatcg ataagtgcag agagaagcta aatctagcgg cgactcacga gcaaaggcta 420
gaggatgagt acgccaagat at 442

<210> 21423
<211> 390
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21423

cgttttgtct gcttatttca aaaggaaaaa gtattgacat ccaatttcct caaccaattt 60
ataagatttg cggaatacat gcaaaatatt tcaagtctga tgcctcaaatg cgtattcgct 120
ttacaagtta atggttggat tgaaattagt aaagattatc tagatgaaat gtgacaacat 180
atgaagggtta gtatataatt aggtcaatta tattcaattt atttatatat ttgaatatta 240
gttatatctt caaattagtt tgataatgta ttttggtagt atataagttt tgcttttttt 300
gatgaaaaca tgtaatataa ggatgctntt agtttacttg atgagacgac agaatatgca 360
atgaagcata ttcaatctca atacaagaat 390

<210> 21424
<211> 445
<212> DNA
<213> Glycine max
<400> 21424

tactcaagct ggactttggt aggcaaatg tctcgtatgt catgactatt atttgttgca 60
tcaagacgtg actatcatga gactttaagc ttaccaactt aagatccttc aactgcacaa 120
ggctcttaat atttgaagag tacccttggt gaactttgac atgacacata cactaacaaa 180
aactcatctt ctcttttctg ggcaaagtat gacaagctga aggcaagtat attttttacc 240
atcagacctt ggatataact gcactcgtat atccatgcc aactagatctt gacgagtatt 300
caaaccatct ttcattctgc cttgaatggt aaggagcgtc ccaataacat tatcacatac 360
atttttctct acatgcataa catcaataca atgtctaaca tctagatcag accagtaggg 420

aagatcaaac aaaattgacc ttttc 445

<210> 21425
<211> 397
<212> DNA
<213> Glycine max

<400> 21425

tttcttggtta aaacctaagt aagcctgctg attcctttat ggtctccgta atttactggt 60
gttgctacct tcttccactt gtattatatg catttggcaa aagatcacct ttacttcctt 120
taccaacag attaatcaga aagtgattgt ggatcagaaa atcaaatcac ttgtattgtg 180
tactgatata aatagcttcc tcatcaaaat ccggtgccct tcactttggc caaaagggtt 240
catctgttca acatctatgc taggcagaat tcctttttca gaacaagcat taatagaatg 300
gcctcctaga agattaatat cgttctctat gggatatggg ctgcctaaac ttataactat 360
ggttaacctc aatactttgt tgttgaaaaa gcttctt 397

<210> 21426
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21426

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gaaggaaaat aagagagaaa aattaacaaa tcctacataa gtcaatccca aaatatacct 120
atacataaca gttattattg acaggctgca gcaactctag actcttgtaa acttatttta 180
aatgaatcca tatttttaat agctctagga tgtattggaa tctaattctaa tgtaccttaa 240
tccaatatgc gctttctata aaacttatgg atagacataa aaagtgttac acaaaattcc 300
agtttgaatt taatggagta ttttcttttg caagtgcaag ttatttgttt tgtttgtctc 360
tgtttttctt ttntgttggtg ttttggaagc tatattcatg aat 403

<210> 21427
<211> 291
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21427

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aatgggtcatt gaccagtccc ttttccatga cttaacccaaa ttaccocagtg acgggtgtacc 120
atattgaaggt tcaactgaatg actactggaa atttgatttc tctgoccatg atgcccgcga 180
gttggtttgc accaacaatg cggatatgac cggacgtctt cttgcggggt cattggcttt 240
tgaaagccgc atccttcact atttaattga gcgtactttg cttgcactgt c 291

<210> 21428
<211> 436
<212> DNA
<213> Glycine max

<400> 21428

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tatcttaacg caaaaagtgt catgctaata cctctgattt tagaatgaac tcatgtaata 120
tatttatgca cacgcgtatt tgtggaatat cctactattt atatcaacgt agaggccatc 180
caacacatcc taattctcat acatatatat gcatttgaaa agaacatata ttctcacgcc 240
taaggcatcg cgtcaaaaact cacacttaat tataatcctaa acatttgcta atacaaacta 300
cctacacaca ttgaaatat gtatcatata aattttattg tttctgcata ttggaaagct 360
aattacatcc tgcacacact tgcattcaaa agggaattcc atgctatcat acatccattt 420
aggaaaataa tcattc 436

<210> 21429
<211> 400
<212> DNA
<213> Glycine max

<400> 21429

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tctattttac atagtaattc tccatcaaac aaaaaccttt tttcatccac aaagtattca 180
aatgatagtc gcccaaaatc ttatccattg tcatcaatat gctctaaata attacatctc 240
ctattaaatc cttgcacggt cattagaccc ttagagctta tctattgttc tcaatatgtt 300

ataaatactt tcattatcgt tagctcacat caagacgaca tgccacctaa cctctacact 360
 accaagaaga ctcttaatct tcatatatgg atatatcatc 400

<210> 21430
 <211> 449
 <212> DNA
 <213> Glycine max
 <400> 21430

tgtagaccta acattatcta tgatttataa gcaaaacatt tctcaacaaa tgataataat 60
 aacttgcaact atattatctt tttaattata gctcaaattc aaatgggtgt gattttgtat 120
 ttgaagatac tcttcacaaa atatattaaa ttgcatatat aaataatggg gttgacaaga 180
 actagtaata catcccatga cccacccct tatctactta ttccatattg acacatatgc 240
 ataattaata ttaagttata aacttataaa aaacaaattt ttatgttggt aaaaaaatgt 300
 caatattaac aattatctat cactaaaaaa taattaaatt cgactaagaa aatttaaata 360
 tttaaataaa atcaataaaa gacttataat ataaaatatt ataaaaagta taacatatct 420
 aattatatat tataataatt tattatctt 449

<210> 21431
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21431

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 agtgaaatct tggtaggtct ctaagaactg aacgtagtct cggtagtagaa agtataactt 120
 catgtgtgtt attctttatt gtttttcttt gtgtgttgat tgacgaagga tttgaatttg 180
 ctttttatat cttatatctg tttttgatct gttaagaaaa ttgtttctc attgtctgat 240
 aaagtctttc ttaaataat cttttctttt attttagtta aatntgcatg agacgataaa 300
 agtggtttta gtctaagaaa aattttaaaa tttctaaaat tacaattaaa cccctnttgt 360
 tgtgtattag cttctcaact attagctaatt tgggtata 398

<210> 21432

<211> 440
 <212> DNA
 <213> Glycine max

<400> 21432

tgtgtttctcc cttgtagaac tactaactgc agtaattggt gtagtttaac tatccggtag 60
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 ctgggcaaga atagtattaa attcattaat atgatcagtt acagagatac cttctcccat 180
 cttgagggttg aacaactggc gcatcaagta tactttgttg gctgtcgacg gcttctcgta 240
 catatctgat aacgccttca ttaagcctgt agtagtcttc tcgtttacga tgttgaacgc 300
 gacgttctta gctaattgtca atctgatcac gctaagagct tgtcgatcca gcaagttcca 360
 ttcttcttgc ttcatgtcgt ctggcttaac ccttgataag ggctgatacg acttcttttg 420
 atatagataa tcctctatct 440

<210> 21433
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21433

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 gcgactgggc cctttcttcc cttegcaact tgagttcaact attgctaccc catagagctc 120
 cgcgaaattt gttccggcca tactcttctt tgcgagccct cttggtctct cgttcaaggg 180
 ctcttgcggt aattgcattc tcttcccgta acccggcaca ctcttccga acgtgtgtag 240
 cagccaactt gaacttctcc ttggcgagtt ttgcctttcc taactcgctt ttgagagctt 300
 ggacttcttc gtctcttcc ggtgcttcaa aattctcttc gctgacgact nttaacttgg 360
 cgagccaatc taaacctcgt atgcgaactt tc 392

<210> 21434
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21434

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 ctcaaaaatg gaggacacat gaatgacaac gcaattcatt catggggctc cgaaaaaggg 120
 taagaatgga ggatttgctt gagggtcctc tcttaggcaa tcatggaaca caactccata 180
 ctcgaaagtg gaggaccac gaacaggcct aagcaataac attcatgtgg ctccgaaaaa 240
 ggatgagaat ggaggattgc gttgagggtc ctatcttatg caatcatgga acacagctcc 300
 aaacttgaaa atggagggtca catgaatgac aacgcaattc attcacggng cttccgaaaa 360
 gggtgagaat ggaggattgc cttgagggtc ctctcttang caatcatgga acacagctcc 420
 aaactcgaaa gtggaggaca catgaac 447

<210> 21435
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21435

agcttgttct tggtttatac atgattgata catgatttgg gacttgtatg atttgatttg 60
 ggcaagattg gatgagggga agtgtgggtt tcgaaatctg cattttgtgc agatttttgc 120
 tgtgaaattg tgcagcagga ttttgcacaa gtgcagaaaa atactatgca tttgctggtt 180
 gtggaaagag cagtgcagaa tgagttctgg atgtttgcta gtagatccca acggtcaaaa 240
 tgtaggctta tgtactagag acttccagta aaaatttgga gtcgatccaa cggttaacga 300
 attggaacga aggaattgtt actggnggtc ttaagtgaga aaagctgtga tcttggtggt 360
 gtttggcaga gttttctgct ttgtctgttt cttggctgga tag 403

<210> 21436
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21436

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 gggagccaag ttatcccttc tgttctagac ttcaaccact tgtgatagtc gtcgatgacg 120
 ccattgttac ttcccctaag ctcttatttt tttgatgcaa tcctaaccg caagggcatt 180

ggatagaaga ctccaagtag attggggccag agatccaagg gaaggcccta gggttctcat 240
 gageccttagg gtagatttcg agcccatggg ctaagcatga gcccgtttat ctttgtaa 300
 attagaatag gtttttcatt cgtttggggc ttgtattttg gccattctag tagtataagg 360
 ttttagcctt gtatttcgag gcattntgat tagtctttat agtagggaat tttttgtatt 420
 ttcattgtatt ttgtcatg 438

<210> 21437
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21437

agctttatgg ctgagaacct atataacaac accaaggttc tagttttagg attctttttc 60
 gttttangga gaaagaataa ttttaggttt tgcaattcca gtttttacta ttcacgtaac 120
 aatcgttttc tgcttcaatc tgcaatttcg ttttctactg attaatggaa ggccaagtct 180
 ccaacgttgt tttctcttga ggatcaagca caactctctt tgagggtntg ttattactat 240
 tgaattctga tcagttnttc ctcttcacca attactctat atttggttga ttaatccatg 300
 catgcttagt gcttgattaa ttgtctctgc gcttaattta cgttcatgct taatgatcna 360
 gtttcgtcat gattaattg 379

<210> 21438
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21438

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 aagagttagg tctagccacg gcccacgagc atagaatcgc ggatgagtat gctcaagtat 120
 atgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180
 ggatggatcg gtttgctctt acctgaacg ggagtcaaga acttccccga ttgttagcca 240
 aggccaaggc gatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300
 attgtcagca tatgatagac ttaatggccc acataattag aaatcgtag gaaacttgta 360

tggctctctca gaccttgact agatacgact ntcctttttg aaatanaatg agttgggtccc 420
atgtttctac 430

<210> 21439
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21439

agcgatgctt agcattatat ttgggatgac ccctatttgt ggaagttgtg tagtgaccaa 60
gttattagga gatgcatttt ggacaatgag attgactcgg tcctgaattt ttgtcattct 120
tccgcaccag gcgaccatct tgggtatacag aggatagctc gcaggggtgt tgactgtggg 180
ttctattggc ccaccatttt caaggatgca tggagaattt gtagtacttg tgagtcttgt 240
cagagagcag gtggttcact ttcttggaaa cagcaaatgc ctcaacatcc tatgttgttc 300
tgtgaggtgt ttgatgtata cgggtatcaat tntatgggac ctttccatgt atctnttggg 360
tntgtntata ttctccttgc tgc 384

<210> 21440
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21440

tgttttaaaag acccaattnt atcaacatct atgtcttctt gttgttttga ttctaattcct 60
tgtgttgatg aattagccat caaacacaaac ttatcttctt cgtcctttgt tgaggcttca 120
tcttcagatt gatccttaga taactcatca actttcagag ctcttggtgc aatcatttgt 180
gggtccacact cagtgggaacc ttcatacaat atagaaagaa tgtccaacat ttctttggca 240
tttttgatat agcgcacctt tgcattgctt tttctgataa tgcacagatg atggcgtttc 300
ttgcttttga gttcaacaag tatctctggt tttgcttatt aatccatctc tgtcttggaa 360
gctcattgag gttgttatca taaggattct agtttccatt ttctattaca tccatcgat 420
cactatggca gta 433

<210> 21441

<211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21441

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ggctttcaaa ggctactctt tctctacaa atattgntaa tctgctaag gattcaatct 60
ccctcacga tatcactatc acaggtgcta ttggattttg tctatataga tatctatgtt 120
tgtggtatgg ccttgaactg ttattaaatg ttattaagtt atttgaagca tgcatttact 180
gtatcttttt gtgattaaac tctctggat tttttcttgt cataggagga catttcttga 240
gtttattaac tttttaaaat tagttaatca gatgatgatc attggagaaa gttgatgggt 300
cttgctttct tgaacattgt tacatggtgc atgggaaaag acatggactt atattttcaa 360
ctatt 365
  
```

<210> 21442
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 21442

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tgagtcttag tataattggt gcataatact tatgaattat ttattatgaa attggtgaag 60
tgttgctact gtcacgtctt gagtcgagtg tgtgattcat gtgtaatgtg atcggcgatt 120
gaaaaataaa ttttaaatga taaagtggag aagtgacatg gattgcatta agttgaacta 180
tgtgatacat attgtcataa ttgatttctc ttatggcttt ggatatctgc attttattta 240
caaatgtgac aactcactcc tgatgtgtgt ttgtgtttgg gctaaatgcc attttgtttc 300
aggtgagcta tcctatgatg atgatcatgc tacaaatgga aacgcttagt cttactcatg 360
gaaattctct gatagatgtg acattgatgc atggggctga tacttcacat gttataatta 420
catg 424
  
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<210> 21443
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 21443

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agcttttcat aatcgattac atagctcttt ttgagacaat gattgattgt ttacgagtct 60
  
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ctactttaat cgattacttc tctcttaaaa tgcgcttcaa aagtgatcac aacttttaat 120
 aaaaatagaa taaggcgctcg taatgggtgc aagctatgta attgattaca tgaagaatct 180
 aatcgattac attgttcttg aaatttttcc aggtgggtggg aagaacacta taattgattg 240
 aaatgataat ataatcgatt acttcttaca cataatcgat tacattgtat atttaattga 300
 ttacatgcag gtataactgg tttctctata aatagacacc ttgtgttctg ccatttaata 360
 acatctaaca acttgtgaat gtg 383

<210> 21444
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21444

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 ttttcaccat ggagatgcag cggaaggcaa aggagaatag gagaggggag gcaccatcca 120
 ctatggaata agccaaggaa gaaggagctt caccaccaag aattgccatg gataagaagc 180
 ttgaagagga tgctttaatg gaggaaaaga aagagagaag ggggggagcac gaaattgaag 240
 gaataaaaga gggagagaag tggaactttg aagtgtgtct cataagactc tcattcatca 300
 aagttacaac aagtgttaca catgcttcta tttagagact aggtagcttc cttgagaagc 360
 cttcttaaga aaacttcctt gagaagcttt ctttaagaaaa cttccttgag aagtttctnt 420
 gagaaaactt ctttga 436

<210> 21445
 <211> 399
 <212> DNA
 <213> Glycine max
 <400> 21445

agcttgtatg gtttttgtct cacgattgtc acatgctcat gcaataattg ttagtcgtgg 60
 ctatacgaga catcttgcca aacaaagtca ggtagccat aactcgcccg tgcttttcct 120
 tccatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagctg gaaaatgagg 180
 ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacattatga 240

ttcactctat tgtgcatctg gtcagagaaa tcaaatgttg tggctctgtt catacacata 300
 attcaaattc attaatatgt aatgcatata ttggatgaaa gctttgaaca tggaacttat 360
 ggcagttcat tctatattgt tgcaagtact cctacttct 399

<210> 21446
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 21446

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 ccaatatgga catattaaaa aaaattatca taatgggtat ttttttttaa aaattacaaa 120
 aatgaataaa tcatattttg atataccata tcacaatgaa aaaattgtat atcaaaatac 180
 gattttactt ttgatttggt taaaatcatt tttattaaac aaaagtgaaa atgtatgtca 240
 aaatacgatt tcaatttttt tttcctaatt aaatcgtgta attttttttt ctgacaaaat 300
 tgtgttcaaa tacatgattc ttaaaataat taaaaaata ttgaaattat atgtgcatat 360
 atgattttta tgttccaatt ctttggaag aaaatcattc tttgaagtac gatctcttca 420
 taat 424

<210> 21447
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 21447

agctttttatc aaacaggctg aagaggataa tgccattcat aattgatgaa agacagaccg 60
 ctttcatagc tggacgacag ctgctacaca gtgtaatcat cgctaataa acagtggacg 120
 aagccataag gggcctaaaag acatgcttgg tgttcaaagt agattttgaa agggccttacg 180
 actctgtttt gtggaacttt ttactatata tgctgcgaag gttagggttc tacaataaat 240
 ggattcagtg gattgacggt tgcctcaaatt ctgcctcggc ctcggtgttg gtaaatggaa 300
 gccccacctc agaattcatc cctcatagag gccttagaca aggtgaccca ctagegcccc 360
 tattattcaa cattgtagat gaagccttaa tgtgtctca 399

<210> 21448

<211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21448

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 aacagaaaaa taactaagtt ggtaaagtct aagagaacct aactaatggt tgttaatgaa 120
 ccaacatata acactatggg ttgctaacac tacaatttgt tgatttcaac cggtaaagtt 180
 tgaaaaaaca tagagtatgt tttgaatttc aaaattttca attgcattgc atgattttga 240
 tcattgcata ttgagtttt gaggggtcgt gtgtttttct ttggaggatt ttgttctgtg 300
 tctgtggtaa atttttctaa ttgttggtgt tcaaggagtt caaaaacttt tcgagatggg 360
 gagtgctctg aagttcgggt gttaaaattt tgctatg 397

<210> 21449
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21449

tttcttttgg tatcatggta gccatcagag aagacattct atttccactc ttatctgtct 60
 gcataattaa tcctttcgca gaatgatata ccctacactt cccatgttga atcaaaatag 120
 tcaagccttt ttcttgaagt tgtectatgc tcaccagaaa ttgcctgagt aaatccactc 180
 acttgcataa gaatgatacc tttttccaca acatccattc tgggtgttatt gccaaagtttt 240
 acagtttggc taaagctttc atccagttct gagaaccact ccttgtttcc aatcatatga 300
 ttgctgcaac cggagtcaag gaaccacact tcttccattn tgtcttgctc caggtcaaca 360
 taagacatta ataaaaaatc tttca 385

<210> 21450
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 21450

ttctaggata acttatgaaa acggtttatg gcttatactt taacagctta accctatgtt 60

ttccttccat tatatgagag gttgacatac ataaataagg tctgattcgg agggggccata 120
attgaactgt ttatgogaac ggtgcaatat ttcataactc aggacataac tacatcaaca 180
accagttca gatttttcac ccattggtgct acaaaaataa taaacaccac tttcaattta 240
cattaatgaa tgaataatca aataactaac tcctgaccac atcaaattaa acccaattgc 300
ttgtttatat caattttttt ttctgtttcc atcgggtgtga gtgacaaaca aataaaatca 360
aaaaatgaaa ctgataatac aaattgaaaa cta 393

<210> 21451
<211> 395
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21451

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tcttcttcta gatcaccatt caggaacgcc gttttcacat ccatttgatg cagctcaaga 120
tcaaaatgag ctactaatgc cagaattact cgaagagagt ctttcttaga tacaggggaa 180
aagggtctctc tgtaatcgat tcttctctct tgagtgaatc ctttagcaac aagtcttgcc 240
ttatgtctct caatgttgcc ttctgagtct ttctttgttt tgaagacca tctacatccg 300
atggctttta caccaacatg caactcaacg agatcccana cctgggttaga tgccatagaa 360
tccatctcat ctctcatagc attataccac aaatt 395

<210> 21452
<211> 430
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21452

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ctattttcag attgggaatg cctctaacaa cacctttgtc aatgattttc ttcattgcctc 120
ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattctct ttggaggata 180
gacatgtgga ggagtagctg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
tgctgccctt cattagaact tcaactctct catttgtcac caagcattct gactttgtga 300

agtttacatt gaatccttca tcacacaact gactgatgct gatcaggttt gcagtcagtc 360
 ccttcaccag cagtactttg ttcagactag gaagtccatc atgaactagc tntcccatc 420
 caatgatctt 430

<210> 21453
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 21453

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 ttaaattgctt aattaatgta gttttaaaag gatgttgatc tctccattgc gtaggcaaga 120
 gcaagacaac gcttaccaaa caaaaaccgc tcttaatttt taaaacatat aataaaatgt 180
 tcccttatta taataatcaa attgacttca attagcataa aaataatagc ctttagtggg 240
 acaatccata gtaacctagg aaactcagta caaatacaca ttaaaaatac aaaagcccaa 300
 ggatataata tgcttcaaat atttgttttc cacactcaaa ttgccatata acgggtgaat 360
 aagtgaattc aaaccaagat ctaaacaaaa agctatc 397

<210> 21454
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 21454

tgagactttg agaaacatga agaaacaaaa caaacccatt gatgtggagg gggaaaaaaa 60
 ggggattttg aggagggaat tgtgatgaga ggttgacaaa aaagaaaagg gtatgttgag 120
 agt gatggag aagtgaacaa aaaatgagaa tgatttgaag aaaaccacac aaactgaaac 180
 cctagaggga gagggaaagc ttgcttacc caccaaaagg tggagacatt tttggccttt 240
 gatcaaaagg gtgtggcttg gcattgagaa cgtgtggagt ggggctggcg aaaaggaaag 300
 gaagaattat acttttcgtt tcgtttggga gcacagcatc gaaggaaaat ggtggaagca 360
 agcaagagtc caaagggaat gggtttgtgg tttgttctcc cgagagaatg acagtgcacac 420
 acgcacacgc agaaacagtc acaggg 446

<210> 21455

<211> 394
 <212> DNA
 <213> Glycine max

<400> 21455

agcttcttat tgtaatcttg aaattcagga cagcactcta atttctgaaa tttttgggat 60
 aaaaatgggc attgaccagt cccttttcca tgacttaacc aaattaccca gtgacggtgt 120
 accatttgaa gggttactga atgacgactg gaaatttgat ttctctgccc atgatgcccg 180
 ccagttgggt tgcaccaaca atgcggatat gaccggacgt cttcttgccc ggtcattggc 240
 tattgaaagc cgcaccttc actatttaat tgtgcgtatt ttgcttcac ggtcttccaa 300
 ccttgccctg gtttctgagg aagatctaata tatcatgtgg gcctttcata cagggcgta 360
 acttgactgg gcacacttag tcacatatcg catg 394

<210> 21456
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21456

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 tatcttaacg caaaaagtgt catgctaate cctctgattt tagaatgaac tcatgtaate 120
 tttttatgca cacgcgtatt tgtggaatat cctactattt atatcaacgt agaggccatc 180
 caacacatcc taattctcat acatatatat gcatttgaaa agaacatata ttctcacgcc 240
 taaggcatcg cgtcaaaaact cacacttaat tatatcctaa acatttgcta atacaaacta 300
 cctacacaca tttgaaatat gtatcatata aattttattg tttctgcata ttggaaagct 360
 aattacatcc tgcacacact tgcattcaaa agggaattcc atgctatcat acatccattt 420
 angaaaataa tcattcacac ttggcaagg 449

<210> 21457
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21457

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 tgggttcctgt caacatggtg tgagataagt tgagaatctc aattgcactt gcattgcaaa 120
 ttgaggaaga gaagccacca gtgattgagt taaaactaag atcaaggtaa gcgagtgggt 180
 tcttcacga gaattgggtcc aatgattgcg tcaatagggt atgagagagg tccaattcca 240
 ataacaatga gttcggttca tgcaaccaat ttggcactct acctttaagt ttgttattgg 300
 acaaatggag tgattcanaa atgggactnt tcccgataan tttggaaatt cagttaaatt 360
 catagatgaa tagtccaatc tccatanacg ggagaaatta tacttgacat tgg 413

<210> 21458
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21458

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 tgaacatgag ttgctttggt tgcactttac atgagcaatc tacacctttt ctcactatat 120
 tgggggtatgt aatttatcta aggaacaat taactaacca aaacagaata aagcaatcct 180
 tgaagtctca taatttgaaa ggaaatcttg cagaactgga gatgtgacgt catttttctg 240
 aacaaaaagc atctgacagt tggaaaaaga aaacagatta ataactgttt acaaagttgt 300
 ttgagaccag tgataccac ttaaacaaaa ttaacaatct taacaacagc aaattcagca 360
 gacaaattat aatcaagtgg cagaaaacaa ttatttatta ttaatgtaat gtcacgtact 420
 gctttttgtc attaaaaaaaa a 441

<210> 21459
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21459

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 atactgcagt ttgtatatca gttgtcacat gcctatgaat atgaggaaaa tgtctctcgg 120
 aaacatgaga taactgtatt atactttatt taatcgatta ccttggctgc ctctactatc 180

tcaagaggca agtttttggga aaactcttgc cttcgttgac agcaactttc atttgctctg 240
 cctttccgtg aaattagacc gaaattatgt tgtataaata gtcagtaact gagatatagt 300
 ttctgatttg gtgtcatatc catcaagctt tatagtttta caatcacccg tgcattgggtg 360
 gatctttatc ttgatcttaa taat 384

<210> 21460
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 21460

atgtaaccct ggaatgaacc aagacaatgt tgacaatatt tgagacagtt gattatgaaa 60
 cgacgaaatt tcctttgaac cggtaagctg gggcgccat acattgccac tggaatgcat 120
 acaactgaac aacttctcta tttaaccatc tgaacaaata ccaacttttag aaggataact 180
 gacaaattat tacatcctaa aaaggaaggc tgtctatgat aggattctta aagcagcatt 240
 gtggccttata caaaattaga gtctacatta agaattgaag cacaaattat aatggaatat 300
 ctaactaaat tgatcttcag aataaaacat caactctgta aaaatgaata gttggcattt 360
 gcatacagca ctatacagtc ctgtaaagct gttattgatt gaataaaaac atcttggttac 420
 ataca 425

<210> 21461
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 21461

agcttggttga ataaccattt aatgaacctt tctatgcatg catagcctat atccattatc 60
 acaaagacta cctaccagca aatcattgaa attcactccc agcaccacag gcttgcttgt 120
 cattaacaaa ataaccgaat attataaatc ttatgttcag gatcttttat tcattcaacc 180
 tgctaggata acataaggaa gctgtgacat tatggcattg gactgcaacg aactacatc 240
 atgatgctat aaccacataa caaacactag agagatccta cagttaagcg caatttttga 300
 ttaaagatct agtgatgtta ttcacaacta gcaagtctag taagagtcaa tactcgatat 360
 accactacta accttacatc caagcaatca tgaatcacca ctcat 405

<210> 21462
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21462

tccatcaagc agaatcatca gaaagggtcat ttgacaaatg ttcaaatacat taatccaaga 60
 gactatcggg acttaaccac caagcagaaa ctatacctaa aagttttaacc actcgataaa 120
 agcaacgagg cttaaccatt aagagcagaa acaaaacaac gattcaatgc ttaaccatcc 180
 atgtcaaaaa cttaaacaat gtttaatcac cgcggacaga agcttaccag gactttttcac 240
 aaacattgtg tgaatcaaca ataatcaaag cttaatcact catgatagaa gctaacaaat 300
 gaacaatgct taaccaccac acatgacaga agctaaaatc atcagaacaa gtcgaagaac 360
 tntagaagta tntaatcaaa cacctttagt acaaacaaaa tctgaacact agacatgaag 420
 aaacttacac aaacttttga g 441

<210> 21463
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21463

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 gactgagctc acgtacttac acgtagacct tatcctcggt cttattaaca ccgggtaccc 180
 atcaatacct tctagcttcc gcgacatgca tgcaattcta catacaaaca tcatgagcta 240
 tccttatcga taatatatgg cagatgcaga taactattgc tccaacacat ttcggtgccg 300
 caacgtgacg tactcaaata ccgcagtcac attttcttcg ttgcgatacg acaaccgttg 360
 gatcactcaa aactctactg gaggccctan gactaaatgg 400

<210> 21464
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 21464

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agcatgtttt aacccttctg ggctgttcga aaggaaaaca cctaatagtt gctccagtct 120

cctcctttac ttttaactca tcttcatcac tgctaaattg tgtaaagctt gatattagag 180

ttgtgaataa atcatgttcc ttgtctaaac atgtgttgga aggtacatta tcaacatcaa 240

aacatatagg cgaaaattgg gggggggggg 270

<210> 21465

<211> 317

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21465

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tggtacctgg agatatgtcg caggggtcaa gagaccttgg ggacgtcatg tggggtgcta 120

ttgcccaaaa ccaagcttga ccaatcccgga cccaaccggg gcatagttgg tcagtgagaa 180

cctgtgatgt acctaaacag gcgagctcct ggagtcacac agataaaagg aacaaagacc 240

acaaagcaag gaggcttggt gtggctggcc aactgtgaat tttgtgtgat atgtggatta 300

tggcctcttg taatcga 317

<210> 21466

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21466

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gcatagcttg agcatatgat cggatcacat catttggttac ctgcatatat aaaaataaca 120

acaacatcaa tatttttaaa tcataacata attaacattc aattaaatag aatgtattac 180

atacttttac agatctacga aggtgttggt tccaaaaaga ggagtagttg tagattccat 240

ggtttaggct ttggtactaa cgtaagaag aagttaaaga gggatatatg agaacgagag 300

aaagtgagtc tttgagtgag tgtatatgat gacaatacat gcattgtata tatagaaaaa 360

aattaacact atcataatTT attcggttgg atcttgggtca ttgattttgt 410

<210> 21467
 <211> 232
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21467

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 tgtgatcctt aaattctgag agaaatgact atcatttagt actgattttt gcatgaatct 180
 ctaaagtatg gattgaatgc atgaaattaa ggatgatgaa agccatgggt ta 232

<210> 21468
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21468

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 ttatctctcc tctttgtaat gagataattc ttcaataaca gttttttttc tccactttta 120
 cttagttgat tttattcctg aattaataaa aaaaattacc aactaatatc cttcccttca 180
 actgttcatg tataattgca atctgtgtat tttttttaa atttactctt caacggatgg 240
 aaggaactac acaaagccgc taagtaccca agaataacta catccagttt ttatccagat 300
 ttttacataa tagctacacg ttattnttct gtaagtgtac attatttttc tctattattt 360
 ntttctatct aactcccacg caaggaagtg catatccaac tgaatcatgt actaattgca 420
 tccgttggtc ctttatat 438

<210> 21469
 <211> 388
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21469

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aaattcttct cttacaatt aacctagagc acaaaattca ttctaggtac tactacatca 120
 attaattgatt agtaaaatgg caaagaggaa aacttgtaca gagatgagga aaatgcacta 180
 acctgtaaca tttctttcat caccaccct gttgtatgca agtctttcaa agaaatgaca 240
 caatagggga tgatacttaa taatactaaa aagagtcctc ttgcactctg tttgatgatt 300
 gagccaatat gattcagaat gcttatcttt aatcttcctt gccatggctg caaaattcac 360
 cttntaaacc agctggattt agaaatgt 388

<210> 21470
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21470

ntgcatgcca ccggacttga ttgtctctgg atggccagat gggtgactaa agtagtctcg 60
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 aatgggctcg cttaccttga gttagtggag gggagactaa atagtctcag tcgatagaca 180
 ttgagttttc gacaaagggg gcaaatgacc atatttgtct ctacgcgtca tcggacttgc 240
 tgtctctgga tgaggaaggg agactaaagt agtctcggtc gatagacatc gagtcttcga 300
 caaagggagc agatgaccat gttgggttgc gcatgtcacc ggacttgcgt tctctatatg 360
 gcgaagggag actaaagtag tcttggtcga tagacgtcgc gtcttcaaca 410

<210> 21471
 <211> 402
 <212> DNA
 <213> Glycine max
 <400> 21471

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 agccaagccc ctacttttga ggggcaactc ccaccttatg aagactatcc cggacaagac 120
 gatggggaag gagataccca tcttggtccc ctgctccacc tcaaagatcc atccccgcac 180
 gaactacccc agccgaacat agtccgccat atcccgccct caccacgcc cgtaaaagaa 240
 tctgttcctt tcgcggaaga tacgggaaag attgatgcgc ttgaagagag gttgagggca 300

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 10/15/99

gtcagagggcc tcgacaatta cccattctcg gatttggcag atctatgtct tgtgccaac 360
atcgtcatcc ctcccaagtt caaagtacca gactttgata ag 402

<210> 21472
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21472

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ttctcttggg atttgcacaa cctatgggct tgatttaaatt taaagaaatt aagggttaatt 180
aagggtgaaaa ctctaggatt gtggctgcct cttggctgac caaggagttg cacaattttc 240
catatgttta tgtgtcttaa ttctaatttt aattacgtat aatgacacca tcaattgttg 300
ttatcaattc tagttttact tatgtttaat gacaccatca attgttggtta ttggtgatca 360
tttcacttgt gtaaccaact tgatgtcatt cctatttata ggctgcacat tatctaataa 420
aaaaaat 427

<210> 21473
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21473

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gtttacaaat taagcttata tatgtgtctg taataatgca atttctatta taatgaggct 120
gtaactgatt gtctctgttt tcccatgtaa atctagtttt gtctaataaa gggaagagaa 180
ggatatatga tgctggcttg tttggctctga tcggagagga tgatgatgag gtgggtgttt 240
ttccctagtt aagaattgag aaacgttgct ctcttatttt tttttctgaa tttctcctgt 300
tgttaattat taattaatta tcatgagatt tgggtggctga atttagcaac tatgaaaatt 360
acagggattt cttgatttca tgcaagaaat ggccttgatg atgcagaaag tgagacccaa 420
ggtattgcat atc 433

<210> 21474
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21474

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 attatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180
 tttcaaaaact atcatgacat gtagaggaga atcaaggatt tcaagtcaca aaatgtcaag 240
 aactttttatt ttcaaaacaa ttacccatttt cttgaacata tcctataatt caaagaanaa 300
 catgcaaagt cgtacatgca cacaaaattg acccanaata ttaaactaaa aatccgacga 360
 aactaacaac attaacanat taacacaact aac 393

<210> 21475
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21475

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 aaagatggat tcatgcctaa ttacatgggtt tggattgatc atggtgaaaa gatgccacat 180
 gttgataatc atcacatggg tggttttaagt agtgggtgtag atgtggccta aggtgaacca 240
 tttatgttaa tgcaggagat gatgtttgat gctcttaggc agcccaaat atttgaagca 300
 ccaaaatcag ataacatgga agagcctata aatgaagaag ctcaaggatt ttataatatg 360
 ttggtagagg caaataacgt cattgtttga agggcatcag tctctaagtt atcaattntc 420
 acttatagct tgcaagtcca attggaatgt tcctaagta 459

<210> 21476
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 21476

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ggcaaaattg gatgaaggta agagtgggtt tcgaaatctg cactttatgc agaattttgc 120

tgttgaaatg tgcagcagaa ttttgtatat gtgccgaaaa atgcttggtg atggctgggtt 180

gtggaaagcg tagtacatat ggggtttctgg acatttctta gcagatccca acgggtcaaaa 240

tgtagactta tgtactagag acttccagta aaattttcga gtcgatccaa cgggttaacga 300

actggaacga agagaatgtt actgtgggtt ttgaatgtga aaagctgtga tattgggtt 360

gtgtttgggc agagttttct 380

<210> 21477

<211> 466

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21477

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ttttgttgac ttcagagtgg tacctggaga tatgtcgcgg gggtcaggag accttggggga 120

cgtcagggtg ggtgctattg cccaaaacca agcttgacca atcccgaccc aaccggggca 180

tagtcgggtca gtgagaacct gtgatgtacc taagcaggcg agctcctggc agtcaacaga 240

taaaaggaaa acaagaccac aaagcaagga ggcttggtg ggctggccag ctatgaattt 300

tgtgtaatat gtggattgtg gcctctggta atcgattacc aagggtgggt aatcgattac 360

aaggcttaaa attgaggaca ggaggctaag atggtctctg gtaatcgatt accaaggggt 420

ggaatcgatt accaggcttg aaaacgaagt caggaaactt agggag 466

<210> 21478

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21478

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atacttctat aaacagaatc atttgctaaa tcaataccat catttattga taacttttca 120

ttcacaacaa ttggagtgac aacaggcttg cattgctcca tgcgaaactt cttcaatata 180
 tccaaagcat atttcttttg tgaaatgaag atcccatcat tagactgaga aatctccatc 240
 ctaagaaaat acttcatttc acccaagtca gtcatttcaa attctttttc catgtccttc 300
 ttaaattggg ttaaggaatc agattcattt cctataacca acaaatcatc aacatacaag 360
 gaaacaatga gctgcatttc attnttncac ttcttcacat ac 402

<210> 21479
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21479

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 cttctctctg cttttaggcc actcaattgg gcgtttatat ccttcaggaa caggaacaag 180
 gcaggtagga ggttcttcag gacagtgtct ttctcgatgt tcatagtgtt tagtactccg 240
 gagactccta atagctttcc agttgtcaag gcatgggata aaatcaggac cagcagtgac 300
 attgcaaagc ttccacttgt atccagttgc ctgcttggag gattcttgag actccttttc 360
 attcttagac tctgctgcct gagttgacca agaccagtt tctgtagtac tttcttcgtg 420
 aagctcagac tgagccccag aaggatatac c 451

<210> 21480
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21480

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 attcatcgca tccactaaca gacgttgagc gccgtccaac tgatgggtact cgtcaccacc 120
 accacctgct ccagccataa ttcaacagga aaaaaaaaaat gtgcaataaa aattattaag 180
 gtttcaggac ctcacaacac tctactcacg tctcttagat ggtagtacac tctgttttaa 240
 tgctctcaat aggcctttgt gtaatgtatt ccctcttgcc ttttaccact cgtgtttcct 300

cttaagttcc tggatggacc aaattagaca cacaaggtaa tataaaataa aaggaaagac 360
aatataatga tcacaaacag aattgatntg ggataaacia ctgg 404

<210> 21481
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21481

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aaagggagaa agaaggttgt cttcgaaccc agagattggg tttgggtgca catgagaaaa 120
gaaaggtttc gaaacaaagg aaatcaaagc ttcaaccaag gggagatgga ccatttcaag 180
tgcttgaaag aatcaatgac aatgcttaca aagttgagct gcccggtgag tataatgtta 240
gttcaacctt caatgtcttt gacttatctc tttttgatgc agatggagaa tccgatttga 300
ggacgaatca ttctcaagag ggagagaaatg atgaggacat gaccaagagc aagggcaagg 360
atccacttgg aggacctatg acaagggtta gagcaaggaa agccaaggaa gctcttcaac 420
aagtgttgcc catattatct gaata 445

<210> 21482
<211> 403
<212> DNA
<213> Glycine max

<400> 21482

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cgagcctcaa ggtccaccac caatttgga agctcatcct gctttgccat aatgccttcc 120
acttggtat ccaagtcctt ttgctcctac tgcaagtcct tacaacattc gaacaactta 180
tcaccatcca acctggtgag caacaacttg gccaaaatgc ccctaacctt ggaagacagt 240
tggtgggttg acttcacaac ttcaatgaag gcaatgggtg ccctagctac cttatggcgc 300
tcttgtctcc aaaccatgag agcagtagcc atccatttgg tgacctttgc ctccaaggat 360
gccaccttgc gtagaagcct ctggtgtcgc tgtgcattct cct 403

<210> 21483
<211> 397

<212> DNA
 <213> Glycine max
 <400> 21483
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 ccctttcttc ccttcgcaac ttgagttcat tagtgctacc ccatagagct ccgcgaaatt 120
 ggttcgggcc atactcttcc ttgcgagccc tcttggtctc ttgttcaagg gctcttgccg 180
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 tgaacttctc cttggcgagt tttgccttcc ctaactcgct tttgagagct tggacttctt 300
 cgtcctcttc cgggtgcttca aaattctctt cgctgacgac ttttgacttt gacttggttag 360
 aacctcttgt cggattgatt tgatcccatg cttacta 397

<210> 21484
 <211> 401
 <212> DNA
 <213> Glycine max
 <400> 21484
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 tgagctgggtg aaaaagaatg tggcatttac ctgtggtgaa aaacaagagc aagcctttgc 120
 tttgctcaaa gaaaagctta ctaaggcacc tgttctagct cttcctgact tttctaaaac 180
 ttttgagcta gaatgtgatg cctctggagt gggagttgga gctgtattgt acaaggtggg 240
 caccctattg cttattttac tgaaaaactt catagtcca cccttaacta cccacctat 300
 gataaagagc tttatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc 360
 aaggaatttg tcattcatag tgatcatcaa tcacttaagt a 401

<210> 21485
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21485
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agagaaagca aaaaaaagag agaaggaaaa tttccaatca aaggaaaaaa gagaggaaaag 180
gaaattgccca atcaaagagt gggagaaaaga aaaaagaaaa gaaagaaaag tcccaaccaa 240
agaatgggag aaagtaaaaa ggaaggaaaag aaagttcctc atcaaagaaa ctagaagaaa 300
tgtgcagaaa ggtctttttg accagacaat atctgaacaa tacagaattg tcaccaaattg 360
aacaaaagaa agaanaaggag accatgacct atagtgggtct tctccctttg attaccaacc 420
aatatcctg 429

<210> 21486
<211> 388
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21486

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aaagcttggtg tttaagcatt tcttggact cttcttttga atcttcaaga gttgtgggta 180
aggatttcat cctttcttct gaattctaaa aatccttaag aagagtctct cgtccactgg 240
atacctttta atccggtaat gccttgacct actcaciaac aaagggtgtct tgtacatcac 300
ctggggaagt ggttctagga caaatcaac taaaagagtt cgataagttt tcttaagatc 360
ctgatngctc ttttcaagat gttgaaaa 388

<210> 21487
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21487

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aatttcgtgc tccccctccc tctttctctc cctctttctt ttctccatt gaagcatcct 180
ctccaagctt cttatccaag gctcatcttg gtgggtgaagc tccttcttcc gtggcttatt 240
ccttaatgga tggcgctcc tctcacctcc tttcctttgt ctccgctgc atcttcatcg 300

tggaaaatca ccattaaagg accccattga agctcanaga tccagcctcc atagaagtcc 360
 cacaagcaag cttccatcaa gtggtaatca gagcacaaga gttcaagta ggtgcacctt 420
 anaccttca 429

<210> 21488
 <211> 334
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21488

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 aacaggagtt ctctctcttt gagggaaaga gcctatttta tttcaatatg atagatatataa 180
 ggcaatttat tttgagttgt gtcactagaa gcaagcacat acctaattga ataaagatct 240
 acttctactc gaagcacatg tagaaatgaa ccatcaagag accatgctaa tcttctaaat 300
 tctanagaaa gatggcacca tctcattatg gaag 334

<210> 21489
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21489

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 tactaaatac acccccttac cttntttgt gattcttttt tctaactgta tggaaactta 180
 cgaattatgt aacgatactt gttttccttt cgtaatgta caaaacctta cggattacgt 240
 aatcatccct tttttgcctt ccggaatgtt acggaacttt acggattgtg cactaacact 300
 tccttttaat ttccggcatg tcacggaact tcacggattg tgctacaatg ctttcttttg 360
 atttccggca tgtctcgga cttcacgaat tgcctaacga tgggt 405

<210> 21490
 <211> 378
 <212> DNA

<213> Glycine max
 <400> 21490

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tgtcgcctcta ttgaatagct aggtttgttt ctggaacctt tggttaacct aaggaccttt  120
tttgggtttct ggtgcaagga ttgggggaact catggtgacc tgagacccat tgccgctgcc  180
attgaatagc tgagtctcgc tgccattgtc ggtgttgagt ttgaggtaag cttcatgtct  240
tcattgaaac tttgtgcttc cgggtacgtg ctctttgtgc tcacttctct ttgaagcatg  300
tgtatgttcc catcgtaatc tgttcttatg aaaactagct ggttatagat tgtaattagc  360
ttgtcattag tactacta                                     378

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<210> 21491
 <211> 409
 <212> DNA
 <213> Glycine max
 <400> 21491

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cgccaatcat gggggaccgg tggtaaagtc aatagaggca tgcgggctgt aaaggcctaa  120
gcaaatgaag gacggggtaa cctcaagaag gtttatcttt gaagcattga aagaggcggg  180
catcgtttcc tttgatgggc acaaagggga ctctgtttg atgcatctgg gtgcatcaca  240
tgacatggag acatgttcaa tggcagagga gctattacag caaatgatgg accaaggccg  300
at ttgagatc agtaaagga acaagggaga acaacacatg tacatacagt tggcgaacaa  360
agaaagcccc gctagaccta agcctttggt gatacacttc actagggat               409

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<210> 21492
 <211> 327
 <212> DNA
 <213> Glycine max
 <400> 21492

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tctagctttt ataaatatac ttggcctgcg ttgaattgtc tttgggcttg gcgaccatga   60
tcaacaaagt actttcggca cctactatat gttgacttga ccaacggtga tatcggaatg  120
ctgcgacaat ctttcaacac cttattcaca cattctgata ggttggatgt catctgacca  180

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tatcttcgta cacatgtatc gtaagccatg ctccattttt cctttgaaat gcgatcaatc 240
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attgcaggag tgtacgctgc atcaaat 327

<210> 21493
<211> 425
<212> DNA
<213> Glycine max
<400> 21493

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gatgggtccag ccttcagcaa caacaacagc agcctgctcc ttccttccaa aatgctgctg 180
gccaagcag accatacatt cctccaccaa tccaacaaca gcaacaaccc cagaaacagc 240
caacagttga ggccctcca caaccttccc tcgaagaact tgtgaggcaa atgactatgc 300
agaacatgca gtttcagcaa gagactagag cctccattca gagcttaacc aatcagatgg 360
gacaattagc tactcaattg aatcaacaac agtcccagaa ttctgactag ctggcctctc 420
aagct 425

<210> 21494
<211> 387
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21494

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aatcatatga taactcgtaa tttaattatt ataaattaca ataattttca attatatgac 180
aactcattat tgaataatta cattaaaaat atttatgttg tcaatatatt taattaaatt 240
taaaataaaa ataaaaaata gatattgaac actaaaatga ttattagtgt atttggatnt 300
ttttttcttt ttttggacgc ttggatcttc gttatttcat agtgcacgta tgtcanaatc 360
cgaaaaagac gtaaaagtaa ataatat 387

<210> 21495
 <211> 433
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21495

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 agtggccaag gatgcatggg agatcctgaa aaccactcat gaaggaacct ccaaagtga 120
 gatgtccaga ttgcaactat tggctacaaa attcgaaaat ctgaagatga aggaggaaga 180
 gtgtattcat gacttccaca tgaacattct tgaaattgcc aatgcttgca ctgccttggg 240
 agaaaggatg acagacgaaa agctggtgag aaagatcctc agatctttgc ctaagagatt 300
 tgacatgaaa gtcactgcaa tagaggaggc ccaagacatt cgcaacatga gagtagatga 360
 actcattggt tcccttcaaa cctttgagct aggactctcg gataggactg agaagaagag 420
 caagaacctg gcg 433

<210> 21496
 <211> 105
 <212> DNA
 <213> Glycine max

 <400> 21496

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 ggaagtagtc acaaacttcg tccggaagat cgtcatccgg aagtt 105

<210> 21497
 <211> 546
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21497

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 caacactncn ntcnntnaag cncgccgnnc nttgaggcct gtgaatgcgt cgcaanccgc 120
 ccnncaacnn aacncagcc accgcgaccc gcgagacaaa caggcacatt agccgggtct 180
 aaatcaaaac cgacggagac accgagcagg gcggaccagc ggctaacgcg aaaaagcagg 240
 cggccggggc ccaacaagaa gacggggccc aaacacggac cataaccag agagagcagc 300

cccggggcccc aaggcccaag cgaccctgaa gagcagaggg cccacaccag aaaggagaca 360
 aggcaccggc aaacgaacca tcaccacaaa ggagaggccc aagcccagac cagaaccaca 420
 gacgggacaa gggggaaaca cacatgcaca gacaaagcgc gaaccgagaa agcaccgcgg 480
 caccccaacc tcaggagagac acctccacac cgagagggcc ccaccagaac cagaggggcg 540
 acggcc 546

<210> 21498
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21498

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 tagaaatgtg acctaagcgc ttatgtcatt tccaacaata ttttaattaa aagacaacct 120
 aaacacattg tttccagatg aacacaaata acccaatttg tccaaataag aaacaaaaac 180
 caaatttcgt ctaaatagacg gtacaacaaa agtgtctttc aaatccaaat aaaaactagt 240
 acataataat ctaaaatgcc atatagcttc cacctccacc tatttaccat ctccaacata 300
 tatccatctt tcagaattaa ttggcttccg gtagcttagg caaactgca ttgaaacact 360
 gatngtagta gtggcaccag actctaacca ccaagtgggt ctaagtactg 410

<210> 21499
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21499

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 ggctgtggga cttcacctt ccctatcaag agaagggttg gtcccaggcc aggctaccct 180
 ctctaaaaac tgcttcactg ataggatgaa tcttgaggga gctaccacct gtagactcta 240
 cagcaatata atctgacctt aatggatact ttgaggcata gcttcaaagc gctgcgagtc 300
 aacatgagct ggaactgaag gagctgcaga agtagatgtt ggagtaggtg ctggagctgc 360

agaagaagat ggaatatcag ctggcctcgc cctcgccctc ctagcccccc ggaaagcaac 420
tgttagatca tcaatgtttc aatag 445

<210> 21500
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21500

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cagcttcaac cctataacgc aacgtggcgg acaaaagtgg gcagtaaact tgaatggtcg 120
tcattgtcaa tgcggaaggt attctgcgct tcactatcca tgttcacaca ttattgcagc 180
ttgtgggttac gtgagcatca actactacca atacatagat gttgtttaca caaacgaaca 240
catcttaaaa gcttactccg cacaatgggtg gcctcttggg aatgaagcgg ctattcctcc 300
ttctaatacgc gcatggacac ttantcctga cccaactaca attcgtgcga aaggtcggca 360
aaataacaag gataggaatg agaggattgg tcaaccatct ga 402

<210> 21501
<211> 439
<212> DNA
<213> Glycine max

<400> 21501

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tatgtgtaat cgattgcgca gtgcagattc tgaattcaaa ttttaatagc tgttgtaaat 120
cagttttggc cactggtaat cgattacatc ctctggtaat cgattaccag agagtaaatt 180
tgttgaaaaa gactttttta cttaaatttc ttggccaaac tttttgctac ttcaattgga 240
attccttcc tatttaatat accctttcta agactctaga gactgtcttg atcatccatc 300
ttgaatatat ttaattttct tgtcttgaat agagctttga gacgcatgtg aaactttggc 360
atcatcaaaa cattcagctt gatcctttgt ctacagtttc gtgatagaat actatataaa 420
gttagtggac aaaaactca 439

<210> 21502

<211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21502

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 tgcttttctcg cgtcttcaag aaccagagca aacagcagaa tactttccaaa tcttctccat 120
 gcctcaccgg aaattccttg atgagctgaa aaaggaatta tcgggatcag aggaattcaa 180
 aactctcatg cttcaggtcc gcaatgaacc ttcgaaaaac ccatattttg aaataagaga 240
 caacctattg ctttttcagg ggtgaatttg gattaatcag ggcaatcttt tcattcctct 300
 nttattggaa gaataccaca aatctccact tgggtggtcac atgggggctag ctaagactct 360
 c 361

<210> 21503
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21503

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 ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgatcgt atccccatat 180
 cagctagatc ttgacgggta ttcaaaccat ccttcgtctt gccttgaatg ataaggagcg 240
 tcccaatcac actgtcacat acattttttct cgacatgcat aacatcaata caatgtctaa 300
 catctagatc agaccagtac gaaagatcaa agaaaatggt cctcttcttc catatgcaat 360
 tcttacgttt atccttcttt ngggtctttc caaatacagt attcaggtgt tgaaccact 420
 gatatacctg ctactagtc aacggtatgg g 451

<210> 21504
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21504

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gtattcgttt aaaatgcatg aagataaatc agtaggagaa caattggatt tgtttaataa 120
actgattctt gatcttgaaa atatcgatgt cactattgat gatgaggatc aagccttggt 180
attggtgtgc tctttgctta agagttactc tcatttcaaa gagactntat tgtttggaag 240
agactctgtt tctcttgatg aagtgcgaagt tgctctgaat tcaaaggaat tgaatganag 300
aaaggaaaag aagtcttcta taagtggatg agggctgaca gcaagagaca agaccttcaa 360
gaaagatagt anatttgata agaaga 386

<210> 21505
<211> 450
<212> DNA
<213> Glycine max

<400> 21505
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taaggatatt tataaatgaa ataaacttaa ttgttttatt caaatataaa atttaaaaat 120
gaataaattt tgttatttta tcaaaataag aaattttaaa aataaaaata atattcaatc 180
aagaaattaa aaaaaattga aggaatttca attgaaattc ttaaagttta actttttttg 240
taattctaaa atttttcatc caaataccac gtaaaaggaa ttcggttcaa taaaaaaaat 300
tcctaagcgt agctggcatt gataaccag tcatcattat catttggtgt gcacacagta 360
gagaaaaatc atttcttata aaaaataaaa gtagagaaca atcaaaacca aatttaatat 420
atattcataa ggttgtgtga gccaaatact 450

<210> 21506
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21506
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aaattgaacc ctggacttga atgaatatct ccagatacct tgtttagatt ctaggagagc 120
agatagttca aggcaaatta cctcaaattt gggggagttg attgggatgt aaagtaaaag 180

gtaaagcatc agcacacaca acaaataagt tgtgtgttaa aaaaaatggt gttgtaataa 240
 ggtcaaagtc aaattaaagt gaaaggctgg tgagaaaagt aattgtattg aaagaaatat 300
 ttggatgaat ctanngattg tgctctctta gaatctaagt ctttgaatcc tagaanaacc 360
 aattaattnt gtagccaaac ctactanca gcctatgaaa gtccttctga ttctatt 417

<210> 21507
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21507

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 gtgggtgctga agaccctgct tcatccccct tatcaacacg cttttgtgaa tcccgtgcac 120
 caaattaggc aactgacat caagggttaga atgattaatc atatccaaag ctctgataag 180
 caatatttaa gcaggataaa agttagagca aaagttctta catgacccaa actaaaat 240
 tgcctgaaaa atctaggagg ctgataattc tgcataaacc attcattctc aaagatctca 300
 ttcattgtaa tccgctgttt catgcgataa gaagaggcga tataataaga tatgttaatt 360
 tcgtgagatg aattangaa acaaagaata tttgctaaag accatattac taacatggct 420
 caaccaaatt agcaaacaat aata 444

<210> 21508
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21508

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 catatctcca ggtaccactc tatggtcaac aaataaaagt aggaagtctc acccttccac 120
 acttctcac ttcaagcttg taggattatg gggtagccat cacatgtggt actaggtggc 180
 ggtcgggcca tgggtgcaaga caattctcca catccacaaa tcacgtataa acccgccatc 240
 ccctgttgcc cacctccaac tgagctcacg tactcccacg tagcccttat cctcgttctc 300
 ctcaatgccg ggtcccatc aatcctccca agcttnaca acatccaagt aattaacatc 360

caatctcata aactaaca

378

<210> 21509
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21509

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ttataggagc aaaatagtaa aaataaaaaag gttaaattaa taccaattta ttatctcttc 120
gctataactt tctacattct tctaaaaaaa tattctctct agggaaacac ctgttttttta 180
tgaggagcaa atcttttttt atcaaataca tataagaaaa aaaaaattat tgtggggtaa 240
ttgccccctt agtccctaac ctacatcctt ccctgctact actacttttt ctaagccaca 300
taatgggagc agagttaatc gtgtctgcaa taagtttggc acacatgatt cgtgccccat 360
ctttagcaag attgttaaga gttgaggata ttttagtttt tatattntat ttgtaatatg 420
cgtgtatgtc t 431

<210> 21510
<211> 321
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21510

agcttgtctc tatgttatgg tgaggggcatt gcggggggga ctcttggtgc tgetcactca 60
ctatgtggag aattatgcac tcatttaca caggactgta tcagcatgcg actcgggtcta 120
actgttaacc caagtagccg caaaagggat tgtttaatgt gatgccttgg aatcagattc 180
tgtcttaacc caaatagatt ctattactgc agctantgtg gaaggggctg agnggatctc 240
tgacgaacca gaactaattg aaacctgacg tgtgttcact ccaaacattg tgatcacccc 300
agcgatgcaa aaacggcgat c 321

<210> 21511
<211> 266
<212> DNA
<213> Glycine max

<400> 21511

ctgttttgac tatatttcca cggcctaaaa acaagattag cccacaaaaa tatttgattt 60

caattgtatc tttatgaaac cactattatt cattcttgta tttatcttta ttaaattgatg 120

tgatcgtacc tcctcgatac ctaccatatt ttatggtgct taagagacta gaataactca 180

ttatattaaa tgaggcgaaa aaattaaaca atctgtatgg aatcatatga cacactttgg 240

attttttttt tggaagcttt aatata 266

<210> 21512

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21512

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tccagttcaa caatgatgcc tattaaacct gtcgttgtaa ttggaagacg acatcgtttt 180

cgggtataaac gtcgttgaga taaagcgcat atttactaaa atgtcaccgg ctgttaaaca 240

acgacatttt tcggaccacc gtccttgaaa gcgggtccta gaatcaagat tntgtagtag 300

tgaatattct atattacatt ctataactat tttcttttac attttatgca tcatgcaata 360

ttttcatatt agtaatgtct aaattctaata ata 393

<210> 21513

<211> 430

<212> DNA

<213> Glycine max

<400> 21513

tccatcatct agtgtcaagg gaaattgtct tgtgttaagt gagattgttc ggtgtcgagg 60

gtggtaacct cgactagtgt aagagttgta ggtatgtgag gcatgtcaag ctcccctagc 120

ttggacgact attgtttagg cttcttctgg caagttgtct ggggtggaca tgcttttgat 180

cttgcaagca aagttagacg tgtcagggtgg atgatgtcct tatatatgac aattcagccc 240

ttttttgatc attggaggat gcattgaaga caaatgtttc gttttgtctt ttgctacagg 300

cgagtgcac acacacatat tactcttgca tatgtatcac tcatggagtg ggtgtgtact 360

gaagatgcaa tacatgggtg agtggagctg catcatgggt taaaaaatta aggcaccatt 420
ttagcttatg 430

<210> 21514
<211> 392
<212> DNA
<213> Glycine max
<400> 21514

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ttctaggttt gaaaagtga atcgagaatg aggtaaattt gaagcaaact ctcacctcac 120
accagtccat aacatcaatc taaacttgct caaactggat ttacgcttaa aatctcaccg 180
aatcaaaatt tgactcttcc acacccaaat ttgccctaga aatggctctt tgttcacttt 240
ggtcatttgt ttttctctct agcacagcct aatctttctc ataagtccta aatgacattt 300
caagctagga ttaactcact ttaacctcca ttaccacag aatccagaat taacctttca 360
actctcaagc ctcactcttt ttcactcata ca 392

<210> 21515
<211> 403
<212> DNA
<213> Glycine max
<400> 21515

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ctgggtccatt tcttcccttc gcaacttgag ttcgctattg ctaccccata gagctcggcg 120
aaatttatcc cggccatact cttccttgcg agcctctctg gtctcttggt caagggctct 180
tgcggttaatt gcattctctt cccgtaacct ggcacactcc ttccaaaatg tgtgttgcg 240
ccaacttgaa cttttcctcg gctaatttcg cctttcctaa ctgcttttg agagcttgga 300
cttcttcgtc ctcttcgggt gcttcaaac tgtcttcgct gacgactttt aacttggtga 360
gccaatctaa acctcgtata tgaactttca gccattcatg ata 403

<210> 21516
<211> 395
<212> DNA
<213> Glycine max

<400> 21516

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gagcttagcg agagaagctc gcttagctca gaggatgccg caacaaatcg cgcttggccc 120

aggaaagctc ggcttagcg ggcactatca acaaaaaatt gtctaagtta cttgggctta 180

gtgattcagc ctgcttagc cacatgtagt tcagcaagag gatgagtgtt catcctcaaa 240

ggttgaactc gcttagcgcg gtaggtgcac ttagctagtt ctttagagaa cgcttatata 300

cacaatgagt actgatgaac tcgcttagcg cagcatgctc gcttagcgag ttcacacgt 360

tttcagaaa acgcagaaaa cacagttcgt tttct 395

<210> 21517

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21517

tcaagaatta tgggtctcatc aaactatttg tttccttatg gaaattctat aaacagacct 60

cccatcttta atggagtggg ttaccactag tggaaaaccc gcatgcaaatt cttcatagag 120

gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180

gccggaagtg caaccataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240

gtacaatata atttaaaggc caaaaatatt attacatttg ccttaggaat agatgaatac 300

tttagggttt taaattgtaa aagtgtctag gatatgtggg atacactaca agtaacacat 360

gaaggcacia cagatgttaa aagatctang ataaacactn taactcatga atatgaactt 420

<210> 21518

<211> 330

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21518

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agtgtcgtgt gaagttgcag accacatttc gagaagatcc aatggttaac gaaggctggg 120

cagcgttggt accgaggcag cttcatgtag ctttctctag aagcttcatt aagaggctcc 180

tccagaagct tcattaagag gcttatagca cactccataa atcttctcaa tgatcccaac 240
 ggtcagatca tggataagta tcttgtgaag ttgcagaaca natttcgaga agatccaacg 300
 gttaacgaat gctgggcatc gttttaccga 330

<210> 21519
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 21519

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 agagaatcag gaactagaa taggactata taactggaat tatctttag acaatattca 120
 agctagtac aaggaattat tgctgggact gcaggctctt tcagcgtgg agattaatgg 180
 gtattggaga ctagtagacg agagttacat ggacatgatt ctgggaatgc ttttgaaaaa 240
 tgcagtgttg aatgactggc cacttaatgc tttaaatgaa gatgaagttg tgagtatact 300
 ggaatcagat ggatttccta ggggtgcttg aaggcattgt ttgcacgtat atggcaacaa 360
 agtaaagtag tgcattgcta gctttgtttg gaagttggat gagaagcgag tatgcataca 420
 t 421

<210> 21520
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21520

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 ggttttcta gactcctctg cggcctccac ataaggcata gaggatgggc agctcaccaa 120
 gatgtcttcc tcgcctgata cgatgacaag atgcccttcc actacgaatt tcaacttttg 180
 gtggagtgtg gaggaacaa cgccactga gtggatccac ggacgcccc aacagacagct 240
 gtaggggggg ttaatgtcca ttatttggaa ggtaacttgg catgtgtgag ggcttatctg 300
 cactgggagg tcgatctctc ccctaacctc tcggcggtg ccgtcgaagg cacgaaccac 360
 cattgaactc ngctntatgt gggaggcatt gaatggtaat ttc 403

<210> 21521
 <211> 451
 <212> DNA
 <213> Glycine max

 <400> 21521

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 aacaagggttt ccacatccac aatgcgcgca taaaccacacc atccccctggt gccacacccc 120
 atctgagctc acgtactccc acgtagccca taccctcggt tctctcaaca ccgggtcccc 180
 atcaatcctc ccaagcttcc acaacatcca agcgaacaaa cattcaaaca gcacaagcta 240
 tcacagccaa gcaaaacaga gcaaaggcag aaaactctgc caaaacacca accaaattat 300
 agctttttctc acttaaagac ccagtaaca attccttcga tccaattcgt taaccgttgg 360
 attgactcca aaattttact ggaagtctat agtacagaag cctacattgt gaccgttggg 420
 atctactagc aaacatccat aactcattct g 451

<210> 21522
 <211> 403
 <212> DNA
 <213> Glycine max

 <400> 21522

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 gtcgtaatac ttcatctgat cgcggtgggtg gtgacgggtg ttttggcaga ggccgcggtg 120
 gatgcagggtt tgccaacttt tagtgtcaaa tttgccttaa gtatggtcac actaccaatg 180
 tgtgccattt tcaaaactcac gagtcactca cttttgttga tccaactaca ctccaaccta 240
 tttcgtattc aattgggtcg attaggtcct caaacacttg tgtaatcct aactcccagt 300
 ctgttgctca gccaaactaat caacctagtg ttatgctaac aaactcagca tctcatggaa 360
 atggtcaagc tagctcgaca tggattccag attctggagc tag 403

<210> 21523
 <211> 437
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21523

ntgccgattt agttnttgtc ggtgaaagga ttgaaatggt tctgagaaga tgcaaatttg 60
 agtatcctgc tttgatgaat gggaagccta gggaaaatgg agagaacaag aaggagggag 120
 gaacccatgt tgtgactgtc gttcctacat gacccaattt cccactagct caacaatatt 180
 aatactcagc caatatcagt ctttctcatt acccaccacc ttatcagcca agaaggccac 240
 ccctaaatca tccacaaaac ccgtctgccg cacatccgat atcaaacacc acccttaaca 300
 caaaccaaaa catcaactac ggaaggaatt ttccagaaaa gaagcctgta gaattcaccc 360
 caattctgtt gtcgtatgct aatttgctcc catatctact caataatgca atggtagcca 420
 taataccaac aaagatt 437

<210> 21524
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21524

agctttattt atatactaga ctatgttttc attatgtatg aattgcatat gcataaattt 60
 gatgaagata gccttagtaa tgatgatggt gtttagatttg atgacaataa gagtgaaaat 120
 gatagtgatg ttggttgatga agatggagcc gaggagcaac atggaagtct tcatgaagag 180
 aaaaggatat cttatttgac aggcgatgag ataaagggtc tccattggga aagtgaagat 240
 agtgtttttc aattctatac aagatatgct agatgccatg ggtttgtagt taggaaagat 300
 gatgtatttc aagatttgaa tgacaatggt ataaaacatc aatttgtagt caattgaaag 360
 gtttgagaat angaacactt atgaggtgga ta 392

<210> 21525
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21525

tgtaagccta agccaatagt aatgatcaca tgcaatgcat ttagatatgc aagtaaatga 60
 aaattgtttt gtaatcaaac ctgacacaaa tgagggatgc aaataaatgt cctcttataa 120
 acaatgcaac tgcttatttt tcacaaaaat agccttcaaa catacagcta cacaacttaa 180

ggcacagtat cccctgtgc aatgacctct ctaacctcca cācāaattca acgtgtgact 240
cattaggata caatacaatt tcagcaaact tttgatttaa gatccaaacc ttaatcctaa 300
tcacaacaat catatgcagt ggatacaaat acacgcagtt ttgtgactct cccgtcatct 360
ccttcattcc tgcttatttc actaaacttc acagtaaattc ttatcaatat ggcgttggtt 420
tttgtggtat attgngatac atcggaatga t 451

<210> 21526
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21526

agcttattac aatatacttg tccttcattt aactgtcttt gggcttggcg gccacgatca 60
acaaagtact ttcgacacct actatatgtt gatttgacca acgctgttat cggtatgtta 120
cgacaatcct tcaatacctt atttatacat tctgagaggt tcgttatcat gtggccatat 180
cgacgtcctt ctctatcata agccatggtc catttttcct ttgaaatgcg atcaatccat 240
gttgctatgg ctggactcag ttgacgaaat tnttctaaat tttgatcaaa aatatgcttg 300
caaggagtgt agcctgcattg aaattagtta gcaacaataa ttngaagtat acatganact 360
tanattaaca tgaccatgat aaatgaaatc ttaccaat nttaacat t 411

<210> 21527
<211> 444
<212> DNA
<213> Glycine max

<400> 21527

tcagaacata atggcaacca ttctctctc aaaccagatg tggaaacgcc cctcaaacaa 60
gaagtggaaa caccctcaa gggttcgaga gatcgccaaa gttttgcttg ctgcgcgttg 120
atgaccactc atttagggct ttttatttaa ttcaattgag ataacgacgg gtttttaata 180
aaaccgtca taatttttat gaccaatata cattctaagg tggttttcaa taaccatctt 240
agaatgtgca tcgtaaaaga cttttatcat aaaataatta caaaaatgtc aatgtctcat 300
tttctaaagt ggttccaaaa gaaccgtcgt agaatgtctg tcgtaaaaac acaagtttct 360

tgtagtgatt gaggcatctg tgtactctaa aattgaaaat tgtatctcat caactacctt 420
aactccatca aatagacctg catc 444

<210> 21528
<211> 397
<212> DNA
<213> Glycine max

<400> 21528

agcttataca ttcaatttctg agcgtctcga tatattacgg gactcaatta gacatccgag 60
taaaaattta ttgtcgtttg aattgggtca caggctcaac attcaatttc gagcgtctcg 120
atatattacg ggactcaatc agacatccga gtaaaaagt aatgtcgttt gaatttgctc 180
atagcttaaa cattcaattt cgagcgtctc gatataattac gggactcaat cagacatccg 240
agtaaaaagt tattgtcgtt tgaattgggt cataggttga acattcaatt tcgagcgtct 300
cgatatacta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattgct 360
catagcttaa cattcaattt cgagcgtctc gatatat 397

<210> 21529
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21529

ttgagcaaat tcaaacgaca ataacctttt actcggatgt ctgattgagt cccgtaatat 60
atcgagacgc tcaaaattga atgttgaacc tctgatccaa ttcaaacgac aataactttt 120
tactcggatg tctgattgag tcccgttaata tatcgagacg gtcgaaattg aatgttcaac 180
ctatgagcca attcaaacga caataacatt taactcgaat gtctgattga gttccataat 240
atatcgagac gtcgaaatt gaatgttcaa cctctgagcc aattcaaacg acaataactt 300
attactcgga tgtccgattc aataccgtaa tatatcgaga cgctcaaaat tgaatgttga 360
acctctgagc aaattcaaac gacaataact ntttactcgg atgtcttgat tgagtcgcta 420
atata 425

<210> 21530
<211> 390

<212> DNA
<213> Glycine max

<400> 21530

agcttattcc tgaacgttat ggcacatctt attcgtggct aagcgggatc tattgtcgcc 60
aagcgcaatt ccttacggcc ttaattgagg tccatgacgc taagcgccag tcatggcagc 120
taagcgagat tctttgcagc aatatgagcg ctaagcgagt acctctcagc taagcgcggtg 180
ctcctctgta ctttaagatgc atcatttttag ctacattggc tagggccagg cttagcgaga 240
gttgcagctt ttctaactcg caggtctcgc taagcggacg tactcttgtg ctatgccgag 300
tttctgttca aaaaaaaaaat tcaaatttga aacgtcggct aagcgcacgt gttcgctaag 360
tgagcctggg tgagaaacca aatgtctctc 390

<210> 21531
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21531

ntagtggaat aaaatgagaa atctatgggtg tctaagatat ttacatgaag aggtctggag 60
atagattcaa ccttcattct tttgcttctt cggctagaag caccagccta tttctcccag 120
aaattctatt agaaataacg attgacaata aagaagtaga acaaaatgac aaggtagata 180
ttaataccta agttaaaagga agattagggg caaaggattt tttagcagca acatatttgt 240
tagttctctt gaaagttaaa gtttgctctg gagaagggtc ctcttctata ttttccaagt 300
caatcgtctc aactcgatgt ttagccatca aggaaaatgt tagtagaata acaacggtga 360
aaaaagagac cataagataa cgctataacg aggaac 396

<210> 21532
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21532

agcttatgat attttttaat gttntcttac taattggggt tatttgattt ttgtattaat 60
ttcttttata ataaactcac cctctcfaat tttttgtacc gtgtgggttg tacttgtgat 120

gatcgtgaac cattgttcgt gggagcagaa tgacagcagt agtggacgag aagtgagatt 180
 ctttcgtgat gacgttggga ttatttgggg agagacttgt gttttggtaa tcaactcctc 240
 catagttagt tccataattc tttttgttga tttgaagatg taaatcanca aattaattat 300
 atgtatgaac aaatttactt tccattatgt gtatgatgag tactgagtta ctnatcttat 360
 atatatatat atatatatat atatatatat atatatatcc cct 403

<210> 21533
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 21533

tgctaaagtt gagaagacca agaatttgat tcaacccaat tatatgcat aggggtcaaa 60
 aatgcatcag gaataccaaa ggaactgacc aaggcaagtg cgtgtggtcg aagttcagca 120
 cagagttttg gcacttcttt cctcactgca gaagcattct ctgttgacaa gtatccatat 180
 cgaagaaagg cagaatcttc atccacacat atcacagcat acaacgatct caatagaccc 240
 aagacattct acagaggaga taaataaaag caaagaaatc aataaatgga tctgcttcac 300
 attttgaccc tacaaggaga gtgctaacia cactctttta catgagaaat tattaagtag 360
 tctgaaacta ttatagtccc cactaactaa tatatttaca taaaacaaaa ttgagtgtta 420
 ttaattcttt tcttgtaaa 439

<210> 21534
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21534

ggcaattcag ctctgacccg ggatccttaa gtcacctgcg tttgcaactt tgtggcttan 60
 tgaagatgaa gaggtaaaaag tgactcaaca ggttgagggtg tgtctcacca ttgggagata 120
 taatgacaag gtgctgtgtg atgtgggtccc aatggaagcg acccatgtgc tgtaggaag 180
 atcgtggcag tatgatacca aggcagtgca tgatggcttc accaacaaca tctctttcaa 240
 gcaagctgac aagaagattg ttctcaaacc gttatctcct caagaggttt gtgaggatca 300

gataaaaatg agagaaaaga aaaagagtga gacacttgag aggaaaaaaga gtgagacact 360
 tgagaaggaa aagtgaggaa agactaagag tgatacactt gagagggaaa agagagatna 420
 tcaaaagagt gaaaca 436

<210> 21535
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 21535

tcgttttgac cttgaacaag caactaactt ctctttcagt accatgctat gtgctcgtga 60
 ctggtccttc tcttcccttc gcagcttgag ttcactattg ctaccccata gagctccgag 120
 aaattttatc cggccatact cttccttgag agccctcttg gtctcttggt caagggtctc 180
 tgcggtaatt gcattctctt cccgtaacct ggcacactcc ttccgaatgt gtggtgaggc 240
 caacttgaac ttctccttg caagtttcgc ctttcctaac tcgcttttga gagcttgag 300
 ttcttcgtcc tcttccggtg cttcaaaact ctcttcgctg acgactttta acttgaggag 360
 ccaatctaaa ccttgatat gaactttcag ccattcatgg cagccaccaa tgatgccatt 420
 acgaatgcct ctaagttc 438

<210> 21536
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 21536

agctttgtga ctattaaact atataacagc accaaggttc tagtttagag ggctcttcga 60
 tttattcgtt tttagtttta gtctctctct ctctctctct cttcttctct ctctattttt 120
 cgtttttagt tttaggcttt tcttagacac ttttttggtt tgcaattcca gttttgactt 180
 ttcatttttag caataaaatt tcgttcttca atctataatt tccttctcta ttgattaatg 240
 gaaggctaga ttttctggtg ttgttccttt tgaggacgaa gcccaactct ctttgagggt 300
 tcgcttgcaa tgtggtttcc tggcagtttt cccttcacca gttatcccaa tttcgtgaat 360
 attaatcagt gcacgcttcg tgttcgatta attgcctctg ag 402

<210> 21537

<211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21537

tataagaaca aaattgcctt aatcatttct taatatgcat gtgaattang ggcgatcaac 60
 aagaatcatg ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120
 taatgatgga tggctcaaat tctcaciaag gtaaatcat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240
 tttattttca aaacaattac ccatttcttg aacatatact ataattcana gaaaaacatg 300
 caaagtcgta cgtgcacaca aaattgaccc aaaatattaa actgaaaatc cgacgaaact 360
 aacaacatta acaaattaac acaactaaca aattaacaaa accaacaaaa ct 412

<210> 21538
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21538

ttcacttgag gagggatggt tngaccttn gaagaattnt actgatgtaa ccactatttt 60
 cttctaactn tttagcgtat ttgatcaact atttaaggga cgactacctt ctatatgggg 120
 atttatcatt gagtattagt aattggggccc acttgacgaa ttaggtgctc tcaagtcaaa 180
 ttcctgataa ttataaccaa ttgggctgat cctaagtgga cttgggtcga caagacggct 240
 tatatacaat acgcctaatt tcatttgatc gcgttcacgg tttatgtaag attcttaatt 300
 catcttaaac ccacactatg ttatcctggc cagtggactt gagtgaacct tatcaacact 360
 cctttgatac atgcaggagt gcatatctct cn 392

<210> 21539
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 21539

tgttgaaata tctttgactt gatttggttaa atccataact ctatattcaa tttttggatt 60

atgcttaatg agttttgtat atttgacatg tgaatcaaga ttctaataata tacttttagat 120
tattattatt atatcatacc ttatataata tatgggtgatt gcaatgaaag taaaaataat 180
atatctcgat catcgtgtga tattggattt ggtgtacatg tgaggtattg atatatatat 240
atatatatat atatatatat atatatatat atatatatat atatttggtt attatatatt 300
ggatatataa atagtagatt atttttttca catattaaaa tgttatacac atatagatta 360
aatatgtgaa ttataagatg ttaagggaat atctattaga tgtaacatat tttgaatagc 420
a 421

<210> 21540
<211> 391
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21540

tagcttcttg gtgaatcaaa ggtgattcaa aggtgttttg atgataacaa tgatgataac 60
aaaagatgat gacaaagggtg atgacaaaaa gctcaaagaa caactcaagt gactcaaaga 120
tcaatcaaag aacaactcaa gtgaatcaga gatcaatcaa agaacaactc aagtaaatca 180
aagatcaatc aaagaacaac tcaagtaaat caagaagaat tcaagaatca agattcaagg 240
ttcaagatct caagaatcaa gatcaagggtt caagactcat gattcaagaa tcagagaaatg 300
ctcaatcaag ataagtatga taagtttgtc tcaaaaattg aatagcacgt gatntttcta 360
taacatgtnt accaaagagt tttactctct g 391

<210> 21541
<211> 435
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21541

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actttctgtg attggtttaa agatacaatc tttgcatgtg agaatgcttc agaaacatta 120
agaaagctag cagataggcc taaaagaaat gttataactt ggcaaggata cgacataaac 180
aagtattcat tttacacaaa agcacatgat gagaaaagta caatgcagaa cagcgggggtc 240

accctaaggg ctgaatctca acacttcgca agtgtgaatg acaccaatcc ctgtgtagct 300
 tccatccctt actttgggtt cattgatgaa atttgggagc ttaactatgt gaaatttact 360
 gtatgtatatt tcaaagttaa atgggttgat agcaacaccg gtgcgcacac cgatgatata 420
 ggatttacat tggta 435

<210> 21542
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 21542

ttagcttttc ttcttacaga cagcgaaaaa taatggttat acggatcacc actcgagtat 60
 ttccgccagt cagcgtgact caaatgtcag tatgacagat cttgtgagcg cggaagatga 120
 cgtaaatcta cgcgtgtcaa cgggcttgct gcccggtgatt gacgaaggga gcagaagact 180
 acggtagtct ttgcgtgcc acaagctttt cgtcttacag acagcaaaaa ataatgggta 240
 tacggatcac cactcgagta tttccgccag tcagcgtgac tcaaagtga gtatgacaga 300
 tcttgtgagc gcggaagatg acgtaaatct ccgcgt 336

<210> 21543
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 21543

tctacttatg tggcagggcg ggctttcttc actttcttgt ctccaacgcg agctttgacc 60
 actgttcttc ctcccgcca tgcttctttt catatccgcc tgagtgggct tatagcctaa 120
 accatacttc ccacggttct cttgagtatt tatcaggcta gttatgccgc cgttgtcttt 180
 gcctaaacct atcccgggtt cataaccgtt cccaacata actcgggcca tcattaccgc 240
 tgcacggac agacaaggct gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300
 aaaagactgg aaagcggttt ctaacgattc ttctgcggct tccacataag gcatggagga 360
 tgggcagctt accaagatgt ctttctcgcc tgacacgatg 400

<210> 21544
 <211> 377
 <212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 21544

agctttcttgc ggatcatcta cgtcaactac ggatcaaata tagcttttgc agatcaacaa 60
 aaacctatgt ggatcacgtc atagcatacg cggatcaagc tgaatgagct ggggtgcacaa 120
 aaatatttta aaaatacacg ggggtattttt gcctttttcac gtaggggtgct ggggtgcacct 180
 agcaacaccc ctcgaccatg gaaggccatg aaaggagaga tgtacagaaa ccttatcaga 240
 gcttaacttc ccatccaaaa aagaagattg gttattatta caagggactc acataattag 300
 aattaaagtg ggtctcaacc aattttcatg ctgattttga ggattttttt caatttttcgg 360
 ttgttcataa accacac 377

<210> 21545
 <211> 419
 <212> DNA
 <213> Glycine max
 <400> 21545

tctttgagaa aacttccttg agaagctaga gcttagctac attcaccctt ctcataacta 60
 agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagctac 120
 acataccttt ctaatagcta agctcacctc cttgagatga gaagctagaa cttagctaca 180
 caccctata atagctaagc tcacccccat gacaaaatac atgaaaatac aaaaaaaaaa 240
 tccctactac aaagactact caaatgcct cgaaatacaa ggctaaaacc ctatactact 300
 agaatggcca aaatacaagg cccaaaggaa ggaaaaatct attctaatat ttacaaagat 360
 aagcgggctc atacttagcc catgggctcg aaatctaccc taaggctcat gagaacct 419

<210> 21546
 <211> 385
 <212> DNA
 <213> Glycine max
 <400> 21546

agcttggaac taagcttctt ttctctaaaa cttgtcatcc ataaactgat ggacaaacag 60
 aggtagtga taggtctcta tccacccttt taagggtctt tttgaaaggc aaccataagt 120
 cttgggatga gtatcttcct catgtagaat ttgcctacaa taggggggtt catagaacca 180

ctaagcaatc cccttttgag gttgtctatg ggttcaatcc tctaacaccc ttagacctaa 240
 ttccccctccc acttaacact tcttttatac ataaagaagg ggaatctatg tcaaagtttg 300
 taaagaagta gcatgagagg gtttaggaacc aaataaagaa ccagacaaag gtgtatgcaa 360
 ctaaaggcaa tagaggaaga aatga 385

<210> 21547
 <211> 431
 <212> DNA
 <213> Glycine max
 <400> 21547

cgtagaatta tgggggtaccc atcacatgtg gtactaggtg gtgggtcgggc gatgggtgcac 60
 aacaagcttt ccacatccac aatgcgcgca taaaccaccc atccccctggg gcccacctcc 120
 aactgagctc acgtactccc acatagccca tctcctcggt tctctcaaca ccgggtcccc 180
 atcaatcctc tcaagcttgc acaacatcca agcagaacag cgttcataca gcacatgcta 240
 taacagccga tcacaacata gcacatgcag agaactctgc tgagcacatc aaccacaatc 300
 acagctgttc tcacgtatag accacagtaa caattccttc gatccaattc gataaccggt 360
 ggatcgactc caaaatttta ctggaagtct atagtgtata agcctgcatt gtgaccgttg 420
 ggatatacta g 431

<210> 21548
 <211> 371
 <212> DNA
 <213> Glycine max
 <400> 21548

cgtttgtatg accaatttgg tggcatgac ccctttttta caaacctctc tactattcat 60
 ccttacccta aatcaaatcc tcaaaacatc ttatttggtc gtttagcaagt ataaccaagt 120
 gaatctagtg tgagaatcaa caaaggtcac ataatactta aaaattgaac tagaagaaaa 180
 tgttgtaagg ccccaaagat cattaaaaga agttcaaaat gtatagaata tatagtaaca 240
 aaaggagaag gaagacaatg agacttgcca tgatacgatg tgtacataaa tcagaaaaaa 300
 aaaaatttta ccatatgaag attataaaga ctgaacacaa tactcatggc aacactagga 360
 tgagcaagtc t 371

<210> 21549
 <211> 424
 <212> DNA
 <213> Glycine max

 <400> 21549

 tgagccctgt gtgaaattcc ttccttggtt gaatcttggc gtttctcatt ggttgtagcc 60
 ttagaatccg tgatgattct gagctcccat gtagttcacc tgcttagaag aatttacttg 120
 ggttatgcat tgctctggct cgcgtgctcc accgtacatg tggcatcccc ctatttgcac 180
 gattgaagag tgagaggaac ttaccgctta tagtttttta gggagcttgt tgaggatctc 240
 tgtgagggcc tctatctgtc ggaccaatag cttgttttgg gccaatgttg catcttgggt 300
 tgtgagttcc agaaggctcc tctttgctgg catgtatgct cgaccatgaa ggatggcgtg 360
 atcattggcc accatgttct ctatcagctc cattgcctac tccagtgtct tcagcttgaa 420
 tttc 424

<210> 21550
 <211> 379
 <212> DNA
 <213> Glycine max

 <400> 21550

 cgcttgctga acaatctggt aattaaccta tctatgcatg catagcctat atccattatc 60
 acaaagacta cctaccagca aatcattgaa attcactccc agcaccacag gcttgcttgt 120
 cattaacaaa ataaccgaat attataaatc ttatgtacag gatcttttat tcattcaacc 180
 tgctaggata acataaagaa gctgtgacat tatggcattg gactgcaacg aactacatc 240
 aagatgctat gaccacataa caaacactag agagatccta cagttaagcg caattagaga 300
 ttaaagatct agcgatgtta tttagaacta gcatgtctag taagagtcaa tactgattaa 360
 accaatacta accttacat 379

<210> 21551
 <211> 432
 <212> DNA
 <213> Glycine max

 <400> 21551

tccatcaagc aaaatcatca aaaagggtcat ttgacattag cgtaaatacat taatccaaga 60
aactatcaaa gcttaaccac caagcagaaa ctatacctca aagtttaacc actcgataaa 120
agcaacgagg cttaaccatt aagagcagaa acaaaacaac gattcaatgc ttaaccatcc 180
atgtcaaaaa cttaacaat gtttaatcac cgcggacaga agcttaccag gacttttcac 240
aaacattttg tgaatcaaca ataatacaag cttaatcact catgatagaa gctaacaaat 300
gaacaatgct taaccaccac acatgacaga agctaaaatc atcagaacaa gtcgaaaaac 360
tttagaagta tttaatcaaa caccttgtag acaaacaaaa tctgaacact agacatgaag 420
aaacttacac aa 432

<210> 21552
<211> 363
<212> DNA
<213> Glycine max

<400> 21552
agcttgcttc tacaccatga acataaaata accatcatatc ggttatggac acaaattcaa 60
acattacatt aacttctaca taggggaaag aaatataatt tgcataaat actacaacta 120
agtaatgcta attttgtgac aaggacacgt cgtcttccat ttccattaaa tgtttactaa 180
aaacaactaa gatttctatt gacccaaatt ttttccagta gttagactgc actaacacct 240
ttagcacgtc atcgttggtt ttccagttcaa taattctgaa ttgataatt ttatctgaat 300
actcatagtg gcttggttgt cgaaaaaaca atcgcttac cgtttgtgtc tcatgaatac 360
cat 363

<210> 21553
<211> 287
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21553

tgcacttgag gaccanaat atgaagcaca gttcgtgat ctggccacag agcacaacaa 60
gcgggccaca tacgcaatgc gcgcataatc ccaccatacg ctggagctca cctacacata 120
ccctactgat ctccacata tccatctac taggaaatgt taaaactgag cccccacccc 180

tataatagct aagctcaccc ccatgacata atacatgaaa acaccaaaaa aaaatcccta 240
ctaccaagac tactcaaaat gccctcgaat acgaggctca aacccta 287

<210> 21554
<211> 372
<212> DNA
<213> Glycine max

<400> 21554

agcttcataa gcactatattg agccttatgt gaatctcaac ccctaagacc caatgtctca 60
acagctgcac actacgactt ttcacacagc tttgctggtc aacgccttcg tcattagccc 120
ttttcaagac attggcaacc aactttgata ggccgtaatt aaagcagggc caaggatgac 180
tgcaattaag gtagctttcc aacaaacaac atctatatca aggaatcatg caccatcaca 240
aattcaaattg gctcttaaca tacttttctgc atcatcataa gaaataaaact ctctaaaaga 300
gggtgtaacat tcatcataat atcatcccat ataaaattca gccacacaaa acacataata 360
gtttcatacc at 372

<210> 21555
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21555

ttatggnngc ttangtgtca gagactagcg gttgatttat gtttcgcttc ttgggaaatt 60
aatctaggac ttgcttcaat caccocctgaa gtcgtgggtt caggttatca aagcaagata 120
cttgaatcac ttctccgtcc taatgatacc tccaagtaaa ggggcctcgt atgtttggca 180
taatataatta aaagctcggg atcatctttg tagtggcttt atgcctcatt tgggtgatga 240
aagctcaccc ctatggaact caaattgatc aggtttgggt gactgagcc agtttggtgtt 300
gtacgtccac atcatggaca accattgtac tgtctttgac ttatgacaga atgtaacttg 360
gcaatttact aaccgacgca ctgaaatacc aacgtaaatt gttgcttgga ttagtgagat 420
tgatt 425

<210> 21556
<211> 377

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21556

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agcttgtaat cgattacaca tatactgtaa tgcattacct gagcagattt tcagaaaata 60
ttctcaacag tcacatcttt ttatgtgggt cttgaatggc tatcaaaggc ctatatatat 120
gtgacttgag acacgaattt gcgaagagtt tttcaaaaca aaaaagtctt atcctcttat 180
aaagcaaaat tgttttatcc tcttaciaat tcttggcca aattacttgt gattcaataa 240
ggaatttttg agtgctcaaa ttgttcaatc tatctctttc aagagagatt tcttcttttc 300
ttcttcttca ttctgaanag ggattaagag accgagggtc tcttggtgtg aaagaattct 360
aaacacaaag tgatgtg 377
```

<210> 21557
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21557

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tattgcttta gcaactaattt tcagctcgcc tgtgctgtgt gcaactgccc caaagtgacc 60
ctttgcctat aaatagccat cctacgggtg ttttaagggg ttccaagggt cagaagggtga 120
gggaattttg aaaagagaga aagaagagga aacaaagtcg aggcattgcc gaattgcaac 180
cgcgatcatt ccctatttcg ttttcttggt ctgtgttctt cgtgcaaccg tcagttagtt 240
tatttttttt gtaattgaat gtgatctatg tacccttagg ggtgcccccc ccccttgtt 300
attttgtgca tattcatttc ctccatctat cattgacgat ctcatnttcc tttataaagt 360
tcaatcttaa ccgatcacta gtgttgtaaa gttgtcttta aagagattga aagttaataa 420
acaa 424
```

<210> 21558
<211> 368
<212> DNA
<213> Glycine max

<400> 21558

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agcttttatct tcacataagg gtcagatgca ccaagaagat ctttcttctt taacttcatt 60
```

gcttgcagaa cctttacatg taaaattcca acaggcctct tcaaggctct aagattccca 120
 aaaacattca caagaaaaaa cagaaaagag tcaaggtaat ataccattat attttgacaa 180
 acatttatag aaacgaagta acatactttg acatatctaa cacttgaact tccaaggttt 240
 tgggccatag atacatgttt gcaacctgat ctttgataag ctctgaaaa caacactctt 300
 taagttagtt taaaagtgat gaatacttca acaaaccaaa accaaaacca atacaagttt 360
 ggtacaac 368

<210> 21559
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21559

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 ccctaatact aatactggtg accaaatatt ttggcagtg gtcacattca cattcacatt 120
 ttgatgatat cctacgttgc cataaagata tctttacatg attaccagtc acgtacgtac 180
 cgactctgac aaacgtacac tgcaatttgt accgtctaga tattgatctt tgactgcttt 240
 ctgatgctga ttctcttgtc agcctttttc tagaacaatc aacaatattt tacttctcag 300
 atttttaata atcgaatatt ctttttggac tgtaagtgt taaccgatgc tcatacatag 360
 tattgcctct agattaaata ttcattnttt ccaagattac ggctgtgttg catatctcct 420
 tactag 426

<210> 21560
 <211> 393
 <212> DNA
 <213> Glycine max
 <400> 21560

tgcatgctag ctttgagcca aaatcctgac tcaccataaa ctttgacca ggggtgagaat 60
 gccaatcctt accctcgga gcaaaaaaaa ggagagagag agagagagaa gagaaggaaa 120
 atttccgatc aaaggaaaaa ggagaaggaa aatttccaat caaaggataa aggaaaggaa 180
 attcccaatc aaagagtggg ggaaagcaaa aagaaaagaa agaaaattcc caatcaaaga 240

atgggagaaa gaaaaaaaga gagaagtcaa aaagaagaaa tctcctggtc agagaaacca 300
gaagatatgt gccgagaggt ccttggacca gacaatatct gaacaatata gaattgtcac 360
caaatgaata aaatagaatg aaaggaaacc acg 393

<210> 21561
<211> 400
<212> DNA
<213> Glycine max

<400> 21561

tcaagttgct cattgactcc agattgctac aaataattac agagatttgt atgggtgatcc 60
acagaagaac atagaccaca gactcttgca gcaggtgtag atttctgatt catggcaagc 120
tgggttacta ggttgaccaa ggcattaagt tttccctcaa gctttttatt tttagtagat 180
gaagatgaat ctgtggccac ctcatggact cctctaagga taatagcatc atttcttgca 240
ctgaattgtt gggagttgga agccatcttc tcaatcaaat tcctagcttc agcaggggtc 300
atatcaccaa gagctccacc attggcagca tcaatcatat tcctatccat gttgttaagt 360
ccctcataga aatattgaag aacgagttgc tcagaaatct 400

<210> 21562
<211> 356
<212> DNA
<213> Glycine max

<400> 21562

agctttaacc tcatcgctcc tcacagtctt tagatttggg agccaatcca atccttgtgt 60
tcggactctc agccacttat gatagccacc gatgatcca ttactgcttc ccctaagctc 120
tctgtccttt cttcacgccg catcccatgc cttgcaaact ccttggagta ccttcgcatt 180
gtgggtcacta aaaccccggtg cgatgaaagg cgtgatgctg tcgtctaata gcgctcctct 240
catggggtag ccaagctgtc ttatggcgag aacgggatta taattaatac gaccccttgt 300
tcccatcaag ggaacatgtg gacatccttc gcatgaagat agaatcttga ttcttc 356

<210> 21563
<211> 414
<212> DNA
<213> Glycine max

<400> 21563

gcttatccaa ggctcatctt ggcggttaag ttccttcttc caaggcttat tccctagtgg 60

atggcgccctc ctctctcttc ttctcctttg tcttccgctt catctccatg gtgaaaaatc 120

accatcaaag gacctcattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180

gcttccatca caaattccgc accagcatga ttggagtacc gaccttaagt gttaatttgt 240

gattaggtat ccctgatgtt ttcaatgagt ttagaaattt aggtgtcagt aatccgaaag 300

taggattgag tagttcatct tatttatcaa tggtatcagt gctacaatac tccttttctg 360

cattgtgtat caatgataag acaataatct attttgtcaa caatatcttt ttta 414

<210> 21564

<211> 358

<212> DNA

<213> Glycine max

<400> 21564

agctttgaaa tttggcatct gaagtctgaa agctctaggc agataagtct gcaaaagctg 60

gaagtggggc tgaagtagaa gatgcaagga tgccagctat tggtgcaaag gaagagggag 120

catcagctgc tctgatcttg gtcttccttg cctctagaaa attaactgtt tggtcattcg 180

cattccaaca gttccttatg atataagcta agtcaatggc tggccttatg ttttcatagg 240

aggtaagggc atcagatccc actccctcgc atctgcacaa ggttgtgatt aaagatggga 300

agcctaagcg agaagagtta gattgagcca ccatggtcac ttgtccagag atcaaacc 358

<210> 21565

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21565

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acatctcata gggatgaatg actcgggcat actttaagct tatgcacgga aaatgtaatt 120

atgaaattga gatgcccga gaaacacat ttcttagtta accatgcatt aggtaccatg 180

ttcaattatt ttgttttgtt gttgtgtgtt ttttttttag aaatggggtt atgatcccaa 240

catggttggc tcatgggtgcc taacacatgc aactaagaat gtagtgtgaa gtttcacgct 300

tcccccttttt tgtttttggt ttgttagagga aaacgcaagg atgagcaaac atgaaaacaa 360
atgggtatgca attntgcaga tcaaacagtt tggtgaacgc atatgcatga tgat 414

<210> 21566
<211> 372
<212> DNA
<213> Glycine max

<400> 21566

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tcggttttaaa ctgattcccc tctctgaatg tatgctttgg ctaataaaat cttcttgtac 120
tacttcattt cgtggttcga aagcagacgg gccacaagac cttccaactt ttggcaattc 180
agattccctt attagctaca acccactacc ctgagcaata tataagcata gcaccagctg 240
catattctta cagaaccttt cccttcaact aaaaaaata actccttggt cttctgtccc 300
ttatcattaa tctttctctt ccttatctag ctagcaaagt gcaacattac aatccttctt 360
aagctcttag ta 372

<210> 21567
<211> 430
<212> DNA
<213> Glycine max

<400> 21567

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ctattcgatc ccacagaggt taatggttct gtttctcgaa gccattgga tctccttggt 120
gtcctttttg ggccatctgt ggtatggccc gttttgttgc taaacttaat caagaagaat 180
aaaaaataat aaaagaatta ttttattcct taataacttt ttggagaaaa aaaaaagcac 240
agttaaaatt tttatatatg taaacctttc attcgatctt acattttttg ttttaaaatg 300
agtccatgat attaatTTTT ttttcatttg ttttcagtaa atgccactta tatatatata 360
tatatatata tatatatata tatatatata tatatagata tatatatatt agtccctcta 420
aaggttggac 430

<210> 21568
<211> 373

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21568

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gtgatgatgt ttgtgatgtt tatatgcgga aattgctgat ggaaaactgt tagagatgaa 120
gggtagaact aacctagggt tagaaagtga gaatgtgatg ttatgagtgg aaaaagaggg 180
aggctttgag ggttgaagg ctaagtctga attctgtggt aaatggaggt taaagtgagt 240
taatactagc ttgaaatgtc atttaggact tngagaaaag cttggactgt gctagagaga 300
aacaatgac caaagtgaac aaagagccat ttctagggca atattaggtg ttgaagagtc 360
aaattttgat tca 373

<210> 21569
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21569

tggagctcca agtgcaacca acctctagca agaaacatcc ttttcaacttc tttaataataa 60
ggagccttac caggatgtcc tttaataaaa aaggatttga aaatattgaa ttattggata 120
tttgattaca tactttgatg caatccttcc aaggagatcc atcaccagag ccatgaccag 180
gagacttcag gaagattggt ccanagatag gcgagaagggt tttgtctaata gcaggagctt 240
taatgtggat accgaccggg tggattgaga ggacgtgatc ttatttttgt ccatccttta 300
ttacgattac aggaacattt ggacatgcta tatagggata tataataact 349

<210> 21570
<211> 387
<212> DNA
<213> Glycine max

<400> 21570

agctttgaat ctctttgaac ttctttcttct tctttgtacc aaaagcttta tgaagttttc 60
tggttttcca aaccttgaac acttgtgcta ttcattctttt cattctcttc tccctttgcc 120
gaaaagaatt cgccaaggac taaccgctg aattcttttt gtgtctctct tctccctttt 180

ccaaaagaac aaaggactaa ccgcctgaat tcttttgtgt ctccattctc ccttgtcaaa 240
gaattcaaaa cgacacagtc tgagaattct tttgattctt cccattccct aatacaaaag 300
tgttcagagg actaaccgcc taagaattct tttgtatccc caagcatcac ctaagttaat 360
ttttataata gaagaaacac cccaatt 387

<210> 21571
<211> 424
<212> DNA
<213> Glycine max

<400> 21571

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tgtactatgt tttgatgaat gcttttccaa attcagtgtg ttgactatca gctacagtgc 120
aaccatacaa taaccaaatt ttttactatg ctatctgata aagatgattc cttttttgaa 180
tatgtgcaga aattttgaaa ttttgatatg gtttatttca ctttgccttg ttatcatcaa 240
atggaatttt gttgttaact tttgcttgct ggactttttt gttgttaatt cacctaaatg 300
atttggctta aaccagagag gaagcatttg gacctgttgc acccagagag gaagctatca 360
gaattactaa tgacactaat gcaggtagtt catttggttc ttctttatac agccttgaag 420
aatg 424

<210> 21572
<211> 385
<212> DNA
<213> Glycine max

<400> 21572

agcttcgggc tgctcaattg ctccaggttt ctgcatggaa gggcaaaggc ctgtatggtg 60
gtcagcagag gaacacaaac cacagacctt tgcgacaggt acaaattttt gggtcaaggc 120
cagctggggt accaagttaa ccaatgcac cagtttgctt tcaagcttct tagtttcaga 180
tgatgcagct gagttttagt ttacctcatg cactcctcta atgactatag catcatttct 240
ggcactaaac tgctgggagt tggaagccat cttcttaatt aaatttttgg cttcagcagg 300
agtcatgtct ccaagggctc caccactggc agcatctatc atacttctct ccatattact 360
gagtccttca taaaaatatt ggaga 385

<210> 21573
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21573

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 aagacttcat atcatttatg aaatgcatat tactaccaa tatcaatatg tcatccacat 120
 acaaacataa aatgatgcat ccactatcat caaattgttt cacatacaca catttatcac 180
 tattattgat ttgaaaacaa tatgaaagaa caacttgatc aaacttttcg tgccattgct 240
 ttggagggttg tttcaaacca tataaagatt taacaagttt gcaaaatttc ttttctttac 300
 ccggttctac aaaaccttca ggttggtc taaaatttc ttcttttaaa tcaccattta 360
 aaaaaagctg tttttacatc catttgatga attntcaa ataaaaacaca aacaagttta 420
 attaaaactc t 431

<210> 21574
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 21574

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 atagttggac ctcccagaag agtatagagt cagcaccact ttgaacattg ctgatttaat 120
 tccttttgca agtggagcta atattgagga ggaggaacta acatattoga ggtcgaatac 180
 tgttaacggg tggaggtgaa gagccctttc tccgtgacaa gggactagta actatagcta 240
 tgatcaggat gcgaggagag gactggtcga acattgttga agaatgcct atggttctga 300
 tgaacggcac ggcacactgt taagcccatg ggcc 334

<210> 21575
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 21575

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taattaagac caaaacttaa cccgcagatc cctcatgtaa ggctaagttt caatcgtgct 120
tcaatcaagt tctaaggcaa cagtacattt cccaatgcta aagtcaccta actatgaaca 180
caaatgggtg atcagaccaa aagcatacaa acattagcat tgaaggaagc attgaacaca 240
gaaaacataa tcaattagat attaggtatt tacatcagtt gttcattaga aatccccaac 300
taggggtgtt agccagccat tacaagaaa cccaacaat aaatgagatt aaaagcagag 360
aatgatagtt ccttacataa gaagggggat tctcctcct cttcttagca tctcacactc 420
actctctaata ta 432

<210> 21576
<211> 374
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21576

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gatacaaata tatacaaata ctcccccattc ttttaagctct cttgatttct aagttcttta 120
attcttctcc ccctttggca acatcaaaaa gccaaagtgc ggggaaattt aagacatcta 180
actcaagcaa tcagtaaaca cgaatgtttc aattagctaa tcaatcttta tttatccaaa 240
tcactaacat ctaagagacc taattctctc ttaatggcaa agaatgtttc cttaaggaga 300
agctntgtaa agatatcagc aagctgatgc tttgtatcaa caaattctag aacacaatct 360
cccttcagaa catg 374

<210> 21577
<211> 415
<212> DNA
<213> Glycine max
<400> 21577

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aagtgttgta acattgtcag tttactggac aaaggaaact tgagctaatt gagtgaatct 120
taactctact aagttagcaa gtttcattat attcgagctt actatgtaaa aactcattga 180
gtgattagaa tatattttct atcaaacata tattgtttgt caaagccagg agtgggttgg 240

tgacaaagaa tacttggggtt ttaatctcac ggggagatta agtgtagtgc taagagtggc 300
ctagagagta cttattgtac gctgtaatgg catagagaat acttcgttgt aatcaaagat 360
ttgattaatg gaacccttca aggttttaaag gagaactgga tgttggttaga gataa 415

<210> 21578
<211> 351
<212> DNA
<213> Glycine max

<400> 21578

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atatatcgag acgctccaaa ttgactactg aaactctgat aaaattcaaa cgacaataac 120
tttctactgg aatgcccagc agaggggtctg aattgatcga gggatgctgc aaattgaaaa 180
cggaagctcg taccaaattc aaacgacggg aactgtttac tacgatgtct gattgagacc 240
cgtaatatat cgagacgctt aaaatttata tccgaagctg tgataaaata gacttgacaa 300
taactttata catggatgtc ctgttgagcc ctgtaatgta tcgagacgct g 351

<210> 21579
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21579

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actctcagcc acttatgata gccgccgatg atcccattac tgcttcccct aagctctatg 120
tcctttcttc acaccgcac acatgccttg cgaactcctt ggagtacctt tgcattgggg 180
tcactgaaac cccgtgtaat gaaaggcgtg atgctttcgt ctaatggcgc tcctctcatg 240
gggtagccaa gctggccttat ggtgaggaca agattataat ttatacaacc ccttggtccc 300
attaagggaa catttggaat tccttcgcat gaagatagaa tcctgattct tccttccttc 360
tagtgaggga accaattaac agacgccctt ccattgctagc caagagttgg tccaattca 420
tctttct 427

<210> 21580

<211> 355
 <212> DNA
 <213> Glycine max

<400> 21580

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 aatcttcact atcaatctaa ataaatgagc tatccgtggg ccattaatgc tgagcttgta 120
 atgcttgaac tcgactcatt taaataattg agcctatttc caagcttcac tttgtttatt 180
 taattaaaca aatgagcttg attgagcatt taacaagttg agtttgaata gatcaagaat 240
 agctaagctc atttacatcc cttaaactat tctatttcgg aatctaaggt gcttatgtgg 300
 cttagcccaa gagcatggta aatgtacatc atatgtggca ctaactttat tagtt 355

<210> 21581
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 21581

attgcaaata ctagaaaggc aagactatct cttaccttag aaatgcgtgc atgcatcaag 60
 catgcttggtg tattacacgc tctacctgca agcgatgcga acgctatcat caaaccgggt 120
 cagatccctc cgtaaatgac tactagagag aatggtacga tctcaaacad gcaaccgcgc 180
 aaaattctcg tgctatcggt tacgaggatg tcacccatgc tatactgaga tcacatgtaa 240
 gctctggagc ttgtcttaac gcgggagtag taaaacctaa tgcagggtaa agcactgctc 300
 gtccttctta tcacgacatg ctaaaagccg tggttacatc catgcgatga atgccctatt 360
 tatcaacaca ctccagat 378

<210> 21582
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21582

agcttgtaga attcatccca attccagtgt cctatgctga cttgctccca tatctacttg 60
 ataattcaat ggtagccata accctagcca aggttcatca acctccattt ctccgagaat 120
 acgactcgaa cgcaacgtgt gcttgtcacg gagaagcccc ggggcgttcc attgagcatg 180

gtagggctct gaagcgtaaa ggcgaaggtc taattgatgc gggctggctg aaatttgagg 240
agaattgcgt gtaaactctg acattgacaa gagatgccac acatggggca atcttgaaag 300
ctgntgttaa gtgtccctaa tgactcatca gggtttccaa gtttatgcca ttattgtaaa 360
ccacatctac aatgt 375

<210> 21583
<211> 429
<212> DNA
<213> Glycine max

<400> 21583

tccacaacat ccaagcaaag caacatgcaa acatgtactt gctattacag ccaaacaaaa 60
cagggcatag gcagaaaact gtgccaaaac accaaccaaa tcacagcttt tctcacttaa 120
agacccagct gacaattctt tcgatccaat tcggtaaccg ttggatcgac tccaaaatac 180
tactggaggt ctatagtaca ttatgctaca ttgtgaccga tgggatctac tagcgaacat 240
gcagaacgca ttttacatta ctctatccac aaccagcaaa tacatggatt tttctgcact 300
ggtgcaaaat tctgctgcgc aatcttacag caaaatctgc acaaagagca tatttcgaaa 360
accacagctt ccctcatcta atcttgccca aatcaaatcc tacaagtccc aaatcatgta 420
tcaatcatg 429

<210> 21584
<211> 379
<212> DNA
<213> Glycine max

<400> 21584

tagcttctta gtttcatatg atgcagatga gtgtgtagct acctcatgca ctctctaat 60
gactatggca tcatttctgg cactaaactg ctgggagtcg gaagccatct tctcaatcaa 120
gtttctggct tcagcaggag tcatgtctct aagggtcca cactggcag catctatcat 180
acttctctcc atattactga gtccttcata aaaatattgg agaagaagct actctgaaat 240
ctgatggatga gggcaacttg cacatagttt tttaaattct tctcagtatt catataggct 300
ctctccactg agtagtctaa tacctgagat atccttcctg atggtcgcgg tcttggaagc 360
acggaaatta ttttctaag 379

<210> 21585
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21585

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 attgtattta tgcaattttg gcacctcata ttcaaattat gtgagttagg tcttcttgta 120
 ttataagtgt gtgttttttc tccttcgatt agtcagtcac aaatatttaa tatattttgt 180
 caacgtgata ctagatgatc acatataaat ctcacgagaa ttgatgaatt acttgacatg 240
 tatattgttg tgacttaatt acacttttgg tctctttgtt gttccaatat gaagtaccaa 300
 aagaacaaat aagctctgtt agtatatat agttattgac cagaggataa accattttgt 360
 tgtgtagtta taggatgatt gtgcattaca taatataatt ctataacaaa caatattcat 420
 atttttt 426

<210> 21586
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 21586

agcttgtatc aaatgtgata tttccaagtc tctattccta aacatcttac tcaatacctt 60
 gaaataaatg cttccacatg actggagaag tcatgtaaga cttacttcat aggataggat 120
 ttaatgtaca tgtgatattt ccaagttcat tgaccaaga cataaaaaat agctattaaa 180
 tgcttaatta tagaaatcga accaatttga tccggacctt gtgtcctaag tgtaggatga 240
 gaaatataat caacctcggt tgatcatact ggaatgacta ttaaatacat agttatacaa 300
 atcggatcaa tttgtttggg acctagtgtc ctaagtgatt cgattaatgt gaatgata 358

<210> 21587
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 21587

tcctttaatg aacgcaagtg gtttgggagt gtggtttatg acatgggtga cttgcaagtg 60
aacgtgattg gggaacggaa gaaggtgcac gtgaacgatg tgggagagtg gaaagggttt 120
gtggagacaa agagggaatc gtgggatctg ttgatggcac actttgttca ggattatgag 180
tcatcacgag ggcagagtag tgatattaag atgttgggtt caacacacag gtctgggact 240
gctgctgac aagtttctgc ttttgctgcg cttgtggggg atcatccaat tgccaatttg 300
cgttctcttg atgtctcttc gggtagtat agttctcgtg ttactgctg cgtgcgttgt 360
ttcttcttt c 371

<210> 21588
<211> 365
<212> DNA
<213> Glycine max

<400> 21588

agcttttgta ggtgaaatca ggtgcagcca tttcccttag agtcctctca cgggggtggag 60
gttgtgccat gttcttagaa tgtgcaaaat cagaatgctc aaaattataa tgctcaagat 120
caggatgttc aaaatcacca ataacagaat acacatattc accagtaatg gaatgctcag 180
aatgatcaaa aggtataaaa tgatgcctaa ctaatatatg aaatgtccta tctatctcag 240
gatcaaaggg ttgtaagtca gatggattgc ctctagtcac aactacatt cagcatgcac 300
acaactagtt gccttatcat gtaaataaag gtgtaagttt gaactacagc tacccttaaa 360
tgata 365

<210> 21589
<211> 415
<212> DNA
<213> Glycine max

<400> 21589

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gaccaatctc aatgttttaa acctatcaca aaaatatacc tttttcatta aattgggtctt 120
gttttactct agacaaaatt tgcaacaact ttttcgttgg agtccttggtg aaatgaggtc 180
aaattaaggc atatttggtg catgcaagac gattgcctta ttttgcaaatt taggtctagc 240
agtgtgtttt ttccttaatt ttgagtcttt atggtgatct tcctaaaatg gtgtttacag 300

tttattaaac tagagaaaaa atgattttta accatgtata ttagtaaaat tacagaggtt 360
atcttcaaac tttaaagggg aaggcaaaac agagtgattg ctagaaggag ctctt 415

<210> 21590
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21590

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gaatgaatca gcctaagatg aaggggttag gcgctaagcg cttgagactc atggcttagc 120
gcatgaataa tgatgcgctt agtgtgagac ttgcgcttag cgaaaggagt atttttttat 180
aaaatatttt ctgagttatt tttcagtcct ttttccaaga aattgaaacc cttatgttta 240
acattcaaag ataggcta atactcctat gtacagatta tgcagcaagt tccaatgat 300
ctaattgcattg aaaacaaaaa ctacagaaat taaaactggg ttgcctcca ngaagcgctt 360
ctttaacgtc attagcttgg acaattt 387

<210> 21591
<211> 430
<212> DNA
<213> Glycine max

<400> 21591

tcttattttc agcagatgaa gatgaatccg tggccacatc attgacttct ctaaggacaa 60
taacatcatt tcttgactg aattggtggg agttggaagc catcttctca attagattcc 120
tagcctcagc aggagtcata tcaccaagag ctccaccact ggcagcatca atcatactcc 180
tctccatgtt gctaagtccc tcatagaaat attgcagaag gagttgctca gaaatctggt 240
ggtgaggaca gcttgacac aatttcttga atctttcca gtactcatac aagctctttc 300
cactaagttg cctgatgcct gaaatgtctt ttctgatggc agtggtccta gatgcaggga 360
agaatttctc caagaacacc cttttaaggt catcccaact ggtaatggat ctgggagcaa 420
ggtagtacia 430

<210> 21592
<211> 381

<212> DNA
<213> Glycine max

<400> 21592

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agcttttaggc tattctattg cttcagattg ttgcacaaaa gggcaaaggt ctgtgtggtg   60
gtcggcagag gagaataaac cacaaagtct ggcgacaggt gcagattttt ttattcatgg  120
ctagttgggt taccagggtta accaagacat ctagtttacc ttcaagcttc ttagtctcac  180
ctgatgaatt tgtggctact tcatgcattc ctctaagac aatagcatca cttctggcac  240
taaattgttg ggagtttgaa gccatcttct cgattaaatt tctggcttca gcaggggtca  300
tgtctccaag ggctccacca ctggcagcat ctatcatact tctctccatg ttgctgagtc  360
cttcataaaa atattggaga a                                     381
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<210> 21593
<211> 430
<212> DNA
<213> Glycine max

<400> 21593

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tggcctgaaa cttgctaata atatgctgcc acacagacct gtttttagag ctgacccta   60
caggaattcc aaggttaagaa aagggaatt ccagttgact gcagttgaga gaaaaagctg  120
cctccctaca ccagccttcc gatttaccga gacaccgaa ttggctctta ttgtagttta  180
tcttttagacc agaaaccaat tcaaagcatt tcaggatata ctgtaaaact ctaacattat  240
cattagcggc agccccagag aacaagggtg cgaatgcata atactgtata ttaacttctt  300
ctattttctt tcccacttga tagttgctga agagatcttt tgctactgct gatctcatca  360
acccggttaag gccttccact actatattga atagcaaagg tgcaagggtga tcaccttgcc  420
ttaagcctct                                     430
```

<210> 21594
<211> 388
<212> DNA
<213> Glycine max

<400> 21594

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agcttctcct tccttttttt atacatattt gaaagaggga agaacaaaaa tgttcaacct   60
tcctgggtatc tgagattcac ttaaaattag tgagaaaaat tgcttccgtg aagaaaaatcc  120
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aagccgaggc gcttccgtaa cgatgccgtg ggtgatttcg cgaagatttg caaccgttct 180
 tcgtcattct tcgtgcgttc ttcacgttc ttcagtcctc aaccggtaag ctctgaaat 240
 cgaacttttc aatacatcct atgtaccctt agtggtcctc atttgattca cgtgctttta 300
 tttccatttc attcaatttc cgtactccct tgtgacgtgc tttagtcatt gattgaagtc 360
 attttctcgc ctaataaaaa ataaaata 388

<210> 21595
 <211> 426
 <212> DNA
 <213> Glycine max
 <400> 21595

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 tgggggttgta aggggtctgt ggggagcttg gccatgtggg tactgcagtc cggatgtggg 120
 cgtctctctc ctttttcttt gctccacctg cccaagcct cctattgcta gaactcgtca 180
 aagcagcata atcaaatttt ccccttaggc ccacctcgat cctctcgcct gcaaacta 240
 gacctgcaaa actcaaaggc atgtatccca ccactctctc atagtagtac acaggtaatg 300
 tgtctactat cattgttacc atttcccttt acatgattgg ggggtactac ttaacccaac 360
 aaatccctcc atctctagga gtattctctg aaagattcct actccctttt acacatgtgt 420
 ctgcag 426

<210> 21596
 <211> 382
 <212> DNA
 <213> Glycine max
 <400> 21596

agcttggttaa aacatattta attaagtctc atgatgcaca tttataagac actagaagaa 60
 ctattgtaat tgaaaactag acatgtattg atgtaaatct aattatgtat gcatgtacat 120
 gttatatgat agatgtagct tcataatgga aaaacatttt ggtggttgat atgttggtca 180
 ttttcttggt gtaagttgcc actattataa gaaaagcgg cacaaccact aaacagggaa 240
 gcatcacttt ccaatagcat atggcagaaa taaaactcc aacaatggaa gttgcacaac 300
 ttgagttgaa gtgacctaaa tgtgagtacg aaaggtgatt gaggaaaggt gaaactcgta 360

gccaaaaaag agattgcatc at

382

<210> 21597
<211> 395
<212> DNA
<213> Glycine max

<400> 21597

ctaacctcat tgtctctcac agtctttaga taagggatcc ttttcaatcc ttgagtccgg 60
actctcagcc acttatgata gccgccgatg atccccattac tgcttcccct aagctctctg 120
tcctttcttc atgctgcatc ccatgccttg cgaactactt ggagtaccct tgcgtagtag 180
acactgaaac cccgtgcatg gaaaggcgtg atgctttcat ctgatggcac tcctctcatg 240
gggtaaccat gctgtcttat ggcgaggacg ggattataac taatacaacc gctgtgtccc 300
aacaagggaa cattaggaca tccttcgcat gaagataaaa tcctgattct tgcttccttc 360
tagcgaggga accaattaac tgacgcccct ccatg 395

<210> 21598
<211> 387
<212> DNA
<213> Glycine max

<400> 21598

agcttgttta tgaaattgcg catgcactta ttttctgccc tgagtcatga atagttgatt 60
ggatctaata aaaatatggc tgatgacttg ctcatcagg ttgcagttaa tgctttaatg 120
aaagctgcac ttgatttga gatattgctt tcacatgaac ggctaaatga attttcccct 180
gttaaaaaga tgtaagcttt tacccttttc tcttgcatc ttataacata attttgggac 240
attgcttttc ttatctatag taacattgac atatatatgc aagatgtaac gagttaggct 300
tttatcaacc ctataattgg aagaaatagt tgtgcatcat attatattat atttactact 360
tccacttgat ccttacaagt aatgact 387

<210> 21599
<211> 398
<212> DNA
<213> Glycine max

<400> 21599

ttgaattgaa ggcaaagaac gatcacacac tctccctttc tttttcatct attctttccg 60
 tgagtttctt cttaaaaccc attacaaatt tatctacatc caataaattc atagtttact 120
 gtcaaaacta cttttgtttt tatctctaga ggatgttttt tctctgctga aatatgtgca 180
 tccaaactgt tcttccctt tcataatcat tgaaagctaa agcatcgtga ttcattttat 240
 gcttggattt gcgctcttct tgtcctgggt ttccatgca gctgttttac aatgctaatt 300
 gtttgcgtaa gtttgaatgg caagtgcga tgatgcagta tacattgcaa tgatattaca 360
 cgctcgggca agaaacatta ttcataatgt gaggtgca 398

<210> 21600
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 21600
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 ccatgagagg ctggatcaaa tggagaatag agatcatact gaagaacaaa ggacgagaag 120
 agggaatgat ggtgttccta gacaaaaccg aattgatggt attaaactca acattcctcc 180
 atttaaagga aagaatgatc cggaggccta cttggagtgg gagatgaaaa tagagcatgt 240
 tttctcatgc cacagctatg acgaggacca gaacgtgaag cttgccgcca cggagttttc 300
 cgactatgct cttgtgtggc ggaacaagct acaaatagag agagcaagaa tgaagagcct 360
 tggttgatca tgga 374

<210> 21601
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21601

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 gttttgttta ctttttatac cccctgttga cgtgcttaag ccattttact taagtccttt 120
 ctcgcttaac ttaaaaataa aataaatttc caccgaacgt ttgaattgta ttatccatta 180
 acttcgggta aaataaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240

agaggtaaaaa aaaataatat aataataatc aaaaaacatc ctttagtaaa ataaagcgga 300
 aaatcaatcg gacatTTTTT ctttgggatt tctcattctt aatcgaattg attaataact 360
 aaagtgaaac taaggctaaa atcaactcgc ctagtcaagc tc 402

<210> 21602
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21602

agctttaacc tcattgtctc tcacagtctt tagattgggg agccaatcca atccttgtgt 60
 ccggactctc atccacttat gatagcgacc gatgatccca ttactgcttc ccctaagctc 120
 tctgtccttt cttcatgccc catcccgtgc cttgcgaact ccttggagta ccttagcatt 180
 ggggtcactg aaaccccggtg taatgaaagg cgtgatgctt tcgtctaattg gcgctcctcg 240
 tatggggtag ccaagctgtc ttatggcgag gacgggatta taatgaatac aaccccatgt 300
 tcccatccag ggaacattng gatatacttc gcatgaagat acaatcctga ttcttccttc 360
 ttctagcg 368

<210> 21603
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21603

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 gttttccacc atggagatgc agcggaagac aaaggagaag aggggagagg aggcgccatc 120
 cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
 gcttgggaagg atgcttcaat ggaggaaaag aaagaggag agaaagagag agggggggagc 240
 acgaaattga aggaataaag gagggagaga agtggaactt tgaaagatgt ctcaaacagc 300
 tctcattcat catagttaca acaagtgtta cacatgcttc tatttataga ctangtagct 360
 tccttgagaa gctntcttga gaaaacttcc ttgagaagct tctttgagaa aacttcctta 420
 agaagctag 429

<210> 21604
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 21604

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agctatagcc aattcaaacg acaataactt ttctactcga tgtctgattg agactcgtaa 60
tataacgaga tgctcgaagt taaatgttta agctctgagc caattcaaac gacaataact 120
ttttactcgg atgtctgatt gagtcctgtc atatatcgag aactcgaata ttgaatgttg 180
aagctctgag ccaattcaaa cgacaataac tttttactcg gatgtgtgat tgagtcccg 240
catatatcga gagctcaaaa attgaatgtt gaagctctga gccaatcaaa acgacaataa 300
ctttttactc ggatgtctga ttgagtcttg taatatatcg agacgctcga aattgaatgt 360
tgaacctctg a 371
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<210> 21605
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 21605

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aagttattgt cgtttgaatt tgctcagagg ttcaacattc aattttgagc gtctcgatat 120
atgacgggac tcaatcagac atccgagtag aaagttattg tcgtttgaat tagctcagag 180
cttcaacatt caatttcgag cgtctcgata tgtgacggga ctgaatcaga catccgagta 240
caaagttatt gtcgtttgaa ttgctcaga ggttcaacat tcaatttcga gcgtctcggt 300
atatcacggg actcaatcag acatccgagt ataaagttat tgcgtttga attgtctcag 360
accttcaaca ttcaattttg agcgtctcga tatatgacgg gactcaatct tacatccgag 420
taaaa 425
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<210> 21606
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21606

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atgcattgag tcccaatgta atttgtctat gtgtgagtga actctctaca aggttcactc 120
ttagtacaca tatcccaagg gagtttagca cactaatcta gaaagttatc atactaatct 180
agaagatcag aataagatth accagtttta gcaaaaacag tttttatcat tttttggaaa 240
aatttgactn tatcctttta tagttagttt tggaaaagtg taagaagtca tataaggcat 300
ggctgagctt gtggagagca cctcaaggga tatccaagct atcaattagt catattaatg 360
gttattcaaa gtgctta 377

<210> 21607
<211> 424
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21607

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tgcccatgtt ggcttggttag acgattaggg ctcggttttg tgacccttcg tccacgttta 120
tgacttgagt tccttcaact gctgtggggg gaggcattggc aggcctcccgg atgggaggat 180
acggtgctac cttcaggctc tctatataga attatcgtgc ttgcttttgg ttagccttga 240
cagttacaat ctcccttgtc agtgtaggga atttcatttt caaatggggg gtggagacta 300
tggtttcaag cttgtcaagt gtctttctgt tgattaaggc aaagtatgat gtgtctgcgt 360
taaccagtag atatctgaag ctctagaaa acttaccctg atcgaagggt gtcacatcaag 420
ccac 424

<210> 21608
<211> 376
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21608

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gggatgcccc acattatttc catgacacaa atgcaaaaat gatgatttgg aaattttatg 120
caaaactggt catgcatgca cctatgtgga cactcaagtg tcaaattttt atggtcatgt 180

gatgctaggg ctcangattc atttcctcta ttttaaatac acccaatgtt tccaaaatat 240
 gttcttttat caatttgtgc attcatccga gtccatttcg ggcgtccggg gaaaacttca 300
 cagcattcac ccttcagggtg tatacacatt cttttcaaaa actagttatg atcaatgaat 360
 tcttttcaaa gaaaag 376

<210> 21609
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21609

tctaaacttt gtacaagaat gaagctctga tacctcttgt tagacaagtg gcctcagata 60
 tcttaagaag ggggggttga attaagatat tccaaactgt tccccctaat taaaaatcta 120
 tttttctttt tacttaagtt atgaattccc ttaatgacaa tcttcttaaa tattaattca 180
 aatgaagcaa cttgaatatg aatataaagc aataataaat aaaggagatt aagggaagag 240
 aaaatgcaaa ctcagtttta tactgggttcg gccacaccct tgtgcctacg tccagtcctc 300
 aagcaaccg cttgagagtt acactaactn gtaaattcct tttacaagtt ctaaacacac 360
 aaggacaacc cttcctttgt gtttagagat cttttacaac aagagactca cagtctctta 420
 atccctt 427

<210> 21610
 <211> 342
 <212> DNA
 <213> Glycine max
 <400> 21610

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 tgggtacctg agatatgtcg cgggggtcag gagaccttgg ggacgtcagg tgggggtgcta 120
 ttgccccaaa ccaagcttga ccaatcccgga cccaaccggg gcatagtcgg tcagtggagaa 180
 cctgtgatgt acctaactcat gcgagctcct ggcagtcaac agataaaaagg aaaacaagac 240
 caciaagcaa ggaggcttgt ggtggctggc cagctgtgaa ttctgtataa tatgtggatt 300
 gtggcctctg gtaatcgatt actgaggggtg ggtaatcgat ta 342

<210> 21611
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21611

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 aattgggctt gaacttgaag agagcagaca attttatattt atcaaattctt atcttatcta 180
 gattttattt catccaatct tatcttatct tgtccagatt ttatttcacg caatcttatc 240
 ttatcttggtc cagattttat tttatttcgt ttatgggctt ggacttaaaa cagatttgta 300
 agctttgggg ctgagaacct atataacagc accaagggtt tagttttagg gagttttcga 360
 agaggagaat aattctagga ttttagaatt ccagttgtta ctgttcacgc gcactgt 417

<210> 21612
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 21612

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 caaaagccat aaatactaca tatgaaatgt ggattattat atctatctat cttttaaaaa 120
 atttaaatta tttaattaaa tttgatttta gaaggacta tcgaaataaa atagttccgg 180
 gtagtttagc ttatcttggc aaatcatcaa tgatgatgct ttttatgtca ctctcataaa 240
 cgaaccactt tggctacttg gctacttggc cacttagcca atagccatca ctgaattcaa 300
 aagattgatg tcagcaatcg tacagctttg aaatgcatat gtcgtctta atcttaaaac 360
 tgaatacaaaa gcctc 375

<210> 21613
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 21613

tcgaggaatc ccatgtattt taaccacat gtcgactatc aaggatgcca ccatatgagc 60

agtgtgagac gttggtaaca ttcccagatg aatcccccttc gaaaaacggt ccaccaccac 120
 gagaattgtg gtttttcgtg atacgccggc aggccgacaa tgaaatctaa cgagaggtcc 180
 tcccaaggtc gatggggcac cggtaagggg cataatagtc ctgcgacgcg ttgtgtctgg 240
 tacttagtga cctgacaatc catgcaattt gccacaaatt gcttgacatc ttctctgaga 300
 ccggtccaag tgaagttctc tgaaattcga gctaattgtc ttgtgattcc ggcgtgaccc 360
 cctgttggag tcgtgtggta ttctgaagt aatg 394

<210> 21614
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 21614

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 ctggttactc ggatgtccga ttcaggcaca taatatatcg agacgcccgga aattgaacaa 180
 cggaagcttt tgagaaattc aaatgggtcat ttctttacac tcggagggtcc gatcaggcgc 240
 atcacatata gagacgctcg aaattgaaca acggaagctc ttgagaaatt caaatgggca 300
 ttacttttca cttggagggtg cgaattatgc gtataatata tcgagacgct cgaaattgat 360
 a 361

<210> 21615
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 21615

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 gattgacttg cctagtgagt ataatgtaag tgccactttc aatgtgtctg gtctatctct 120
 ttttgatgca gatggaggag ccttggattt gaggacaaat ccttttcaag aaggagggag 180
 tgatgaggac atttgataaa atttggtgag agtttctctc tgggttcctt gttgaaccaa 240
 ttatcagact tatcaaggta atccttgtgg cgtctacca gacttatctt ccttcattgg 300
 aagtggcgtc taccgggact tatcttcctt caccggaagt ggcgtctacc cagacttata 360

ttccttcact ggaagtggcg tctaccctga cttatcttcc ttcactggaa gtggcgcat 420
ccaaatcttc g 431

<210> 21616
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21616

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atatatgcgc agtgataaaa atgaacatca gatacgctta tcacagagtc gttcccaaga 120
agttactggg ctgactttat gtttgtgttt ttccccggat aattttctgat tgcagcagaa 180
acacaacaaa gataccaacg gaattaatca catcagaatc acctctacac aaatatataa 240
tcccagcaga aacaaaatcc gtagctgtta tattgtttga gcccctaaac aagttagctt 300
aaagtagttt aaatatcttg ctgggtttat ttgtgtaatt ntaatttaat tctacatggc 360
actgtggcat ttgatttctc ccttgc 386

<210> 21617
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21617

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taaaactgat tttgtgtata tgccattatg aataataact ttctgaagac aatcaaacia 120
aaagcaactc tgaatgtaaa ctagagaaac tagagagttt aggcattacc atggaaggaa 180
gcgcattcat atgtcaccat cccagttgc acaacatgca ccaacttcat caatggcata 240
tgctgaggat ccagcaatgg gaccatctcc tactctgtaa tcaatgaaaa agattcaaag 300
aaaacctaata taaaaaatgc atcaatagaa catacaaagg atgattgata gatgctgcat 360
taacaatgtg tgggtgtatat ctgagcatat gtacttggga attgataagg caatttgtga 420
acggctaaat 430

<210> 21618
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 21618

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tataaactta ttgtcaatta aattttctca gagctttgga tcaaaatttt gagcgtctcg 120
atatattacg ggattcattc agacatccga gtaaaaaatt attgtcgta gaatttgata 180
cgagcttccg ttttcaattt ggagcatctc tcgctaaatt gcgataggct atcgggcatc 240
cgagaaaaaa gttattgacg tttcatattt ctaagagttg acgctttcaa tttggagcgt 300
ctcaatatat tacgggactc aaccggacat ccgagtataa aggtattgtc atttcaattt 360
gctcagagct tctagtctcaaatgtgagc 389
```

<210> 21619
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21619

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atcgagatgc tcaaaattga gactagaagc tctgagcaaa tttaaattgac aataacttta 120
tacacagata tccggttgag tcccgtaaga tatcgagacg ctcaaaattt agatccgaag 180
ctctgagaaa attgaattga caataacttt atacacggat gtccggatga gtcctgtaat 240
atatcgagac gctgcaaatt gaaaacggaa gctcgtagga aattcaaacy acaataactc 300
tttactcgga tgtgcgattg aatcgggtaa tatatcgaga cgatctaaat tgagactaga 360
agctctgagc acatggagat gacaataact ttatacacgg atg 403
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<210> 21620
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21620

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ggtgactttc caccatggag atgcatcgga agacaaagga aaggacgtgg gaggaggcac 120
 catccattaa ggaataagcc atggaagaag gagcttgacc accaagataa gccttgata 180
 acaagcttgg agaggatgct tcaatggagg ataagaaaga gggagagaaa gagggagggg 240
 ggagcacaaa attgaaggaa gaaaaaggga gagaagttga actttgagtt gtgtctcaca 300
 agactctcat tcatccaagt tacaacaagt gttacacatg cttgtattta tagactangt 360
 agcttccttg agaagattct tga 383

<210> 21621
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 21621

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 ggattcatag ataaattcga gaagtgagtt gaaatggtga aggggttga ggagccattt 120
 ctgatgaaag tgttcctcaa ggggttaaag gaagagatta gcactgaggt aaagcttcat 180
 gaaccaaaga acttgattaa agcaatggtt aaggctcata gagtggagga taagaacaga 240
 gttttaggga agttaccctt gagtaatagc caggggtata atctgcagaa acctagttat 300
 tccggtcaaa aatttgtaag ggagtgcga ccaacaaata gtaaggtagt tgatcctact 360
 aatgctgcta aaacaagatc cgatggatgg caaggtagaa gaaccttcca taatttgtca 420
 cccgcgga 428

<210> 21622
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 21622

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 aaccactgtt cttccttccc acgatgcttc tttcatgtc cgctgagtg ggcttatagc 120
 ctaagccata cttccacga tttccttggg tttttatcaa gctagttatg tcgccgttgt 180
 ctttgcctaa acccatcccg ggttcataac cgttcccaa cataactcgg gccatcatta 240
 ccgctgcata ggacagacaa ggctgcccac agaggagtc cacggaggaa atgctgacca 300

cctcaaaaga ctggaaagca gtttctaacg attcttctgt ggcttccaca taaggcatgg 360
 aggatgggca gcttaccaag atatct 386

<210> 21623
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21623

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 gtgtagatga aacaatcatt cagatgcttc ctccccgaca gagaatgggt tacccttggg 120
 gcataatcat ttggaaaagt agagaaactg tatatgctca tacaccttcc tctactccct 180
 tagatttact atagttgatg ggtcttctat gtacatccaa tgttgttctt cattgngatc 240
 actctaagtc tgacgtgtga aaatgcaagt aaccactaa aagggggaga ggggttgaat 300
 aatgtgtata tcanagataa caactttttg cgatacaaga atagtatgga taatacaaag 360

<210> 21624
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 21624

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 cgtcctttgt cacgggaagc cggaagggtc atatcacctt cttaattgta cacatggggc 120
 actgcgcccc caaatgcgag agtaagaaga gataattttc cgggctctcg tgtccgtaaa 180
 atgcattcat atcatgcac gcataagcat ctcttcataa catcataatg gacatatcct 240
 gcatttgctc gttatcatat tccagcctca ccttttgcat gagtcatggc atcatcatgc 300
 atatgcgtcc aacaaacttt ttgac 326

<210> 21625
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 21625

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aagagttagg tctagccacg gccacgagc atagaatcgc ggatgagtat gctcaagtat 120
atgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180
ggatggagcg gtttgccttt accttgaacg ggagtcaaga acttccccga ttgttagcca 240
aggccaaggc gatggcagac acctactcca cccccgaaga gattcacggg cttctcggt 300
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
tgggtctctca gaccttgact agatatgact tcctttctga aataaaatga gttggtccca 420
ggtttct 427

<210> 21626
<211> 195
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21626

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tcgtttagg cagaagcacc aaccgcgcg ttgactactt gacgcaaag agacgacgcg 120
ttacctgagg gatgcacgtt cactttaggc cagcacaag cagaagctag aatagggcaa 180
atgcgcctca ttatc 195

<210> 21627
<211> 394
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21627

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taaagggtta ttatggggga caactactag ctgcagttgg acaagatgca aacaaccata 120
actactgtat tgcttatgca attgtggatg ctgagaataa agacaactgg agatgatttc 180
tcacactact gaggcaagat ttgggagact gtaggcagca tgggtggaat cttatgagtg 240
acatgcagaa ggcacgtgcc ctagttcatt gtactattat gagtctttat atgttctttg 300
aaggaccata ctgacagtaa gtgaaatctt tcaaggacta atcgttgctg ttcatgaagt 360

attcccaaat gcacctcata cgtactgagc tatg 394

<210> 21628
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21628

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 acccagaggg aagctcccca agttccaact ccgaacatga ctgcaccggc cggtaattcc 120
 aacacgacaa ggaacttccc tccgaggcca ttgccggaat tcaccccgct cccaatgacg 180
 tacgaagatc ttctaccatc cctcatcgcc aatcatttgg ccgtggtaac tcccggaagg 240
 gtctctgaac cccctttccc gaagtgggat gaccctaata caacttgcaa gtaccatggg 300
 ggtgtcccg ngcattctgt cgaanaatgc ttggccctta aatacaaggg tccaacatta 360
 atggatgccg gat 373

<210> 21629
 <211> 419
 <212> DNA
 <213> Glycine max
 <400> 21629

ttgacttgag tcatcaagag attataaata tgtgactttg gcatgaattt aattaataat 60
 ttatctttca atcttttttc atcatctctc aacatctttg aactctttct acagaatttt 120
 ctgattcatt tctcttcac tttcttaaag tttttgttca atactttttc tttgaagaaa 180
 agttctttga tcaaaaactt gtgttattca tctttttcat tctcttctcc ctttgccaaa 240
 agaacagaag gactaacgcg ctaaattctt ttgtgtctct cttctccctt ttccaaaaga 300
 atagaaggac taaccacctg aattcttttg tgtctctctt ctcccttaca aaagattcac 360
 aggactaacc gcctaagaat tcttttgatt cttccctttc ccttaagcaa aagatttca 419

<210> 21630
 <211> 334
 <212> DNA
 <213> Glycine max
 <400> 21630

agctttgctg attttttttt catccgcgac agaatcgaac tgggtataag aagaggcaaa 60
 tttgataatg ctgattgcat gaatgggaag cctgtggcat atggagagaa tgagaagaag 120
 gaggaacca tgctatgact atcattccca catggccaaa tttcccacca tatcagcaat 180
 accgatactc agccaatatt aacccttctc attaccacc accctatcag ccaagaacac 240
 ccaatcgctc acaaaggcca cccctaaatc agccactaag cctgcctgac acacatctaa 300
 taccaaacgc cacctttaac acaaaccata acac 334

<210> 21631
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21631

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 attgcctccc tcaccagta ttatgatcag ccgtagaggt gcttcacctt tggggacttc 120
 tagctatcac ccatggagga agaatttgaa gagatcctag gatgccctct aggggggagg 180
 aaaccatacc tcttcacagg gttctatccc ttattagcta gaatttccaa gatagtccaa 240
 atctcagcgc aggaattaga gcacaggaag caagtcgaaa atgggggtgg tgggaataccg 300
 agaaaatatt tggaggcaaa agcaagaatc ttggcaggta aaggcgagtg ggccccgttc 360
 atagatatcc tcgcactgtt gattntcgga ggagtcctct ntctgaatgt ggatggggtg 420
 gtg 423

<210> 21632
 <211> 228
 <212> DNA
 <213> Glycine max
 <400> 21632

tatcttgcac gtggaatttc taaagcccca ctccatcata aagagtagta cctgacatct 60
 tgcacaaacg aatttaacgt tacttgacaa ttatagctgc tgtgtgaata ccttaccac 120
 tcaagagtat gacacaatga tggctgctct ctaatgaaac actcttgctt tttaccactc 180
 taattgccct tgagttctta tgcaattcac gagagtatgg acacatca 228

<210> 21633
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21633

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 cctaggggaat taaaaaaaac ttaatggctg agtgtaactg aaattgtggc aacccaaaagt 120
 ccccccaac agccaacaag tcagccacca tttggctctc caaaaggctg atgcctaggt 180
 tgccaattgg gcccttatta caacttgaac taaacctaac taaagccctt ttagttgatt 240
 aacccaaaac atatTTTTTgg tcagccaact ttacaaggat tggggcatta tttagacaaa 300
 ctaaactc taaaattgag acaaagtggg gtcatttagt cctcctccat ttggggccatg 360
 atacaactca caaccttggg ctcttctcct tgaaacttgg gcttgtattc aaatagtatg 420
 gacag 425

<210> 21634
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21634

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 ctgagttaaa ctattttacc caaatgtgct tagtctttta gttgtgggtt tcactttcac 120
 ttttagcacac acacaaaaag aagcaagaat aggccaataa tgtctcatta tcttgttcaa 180
 ttcgtgcaat aagagggttaa attcatctta agatgcaaat ctaacctcag gtagcatgac 240
 tttgtcgaca tatatcatat atcaacagat tcaattacag tggaaatttt caggcaatat 300
 tntatgatat taaatntatg gtcttgctg aactacaaat attgtcccat cttaaccac 360
 tctttc 366

<210> 21635
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 21635

taaaatttga tatctaacaa gtttcatact taaaactttt tttatctatt aaaccaacat 60

ttaatcattt ccttagaatt acaagtaaaa accctaatag aaaaactctg taacacacta 120

tattccacca ggactcaatt atcgaataat aattaaataa tatctgcaaa ataagtttaa 180

aattataaaa ataattatta acaaaaagca tctaaagtta atacaaataa aataattata 240

attgaccaat gccagtgttc tttgttttct tgttttagcaa gaaaaaatga taggatgggt 300

tatttttcag gaagcatagt ccaacttacg ttaagccagt ccctgatata tcaaattcca 360

aatgtatgca agaacgggtca gactcggggt tgtgaagctc cctttgtaca gcaacattca 420

cc 422

<210> 21636

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21636

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tggaggtact cgcttaagcg tcatattttg tgcgcttaag tgaggagagt ccgcaactga 120

gaaatttagg actagtggac ctgcgttaag tgagctttta ctcatgctta agcgagctag 180

gtagtcacgt taggccaag cccacatcaa aatataaaaa ctagggcgcc ataatgagg 240

ggattcagag cgttttggaa aacaactttc tctgtgagag agaaccattt ttagggctct 300

tagctntaaa tctttatata cnttttatgt ttgggtttga ttattataat caagcaacta 360

atc 363

<210> 21637

<211> 418

<212> DNA

<213> Glycine max

<400> 21637

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agagttaatt gaaggggtgc atcggagttc taataacatt atattggggg tttgtgaatt 120

tgagttgatg gggttacgaa aatttggtga tagtattttg ggattttagg tgtgactgaa 180

atgatgattt ggtgttcag ttgcagggaa ggggtgtgga gtgagtgtgt gagagagagg 240
 tttgattcct ttgcttttag aaaatctgcc caattggaaa ggggttaaag ggaaagttga 300
 ggactacatt gagcactaca ttagcctgtc aatataacta atgatggtta agaataatgt 360
 ttgtttgttt ttttttttaa cttataaaat taaactacat tagcctgaca atagacaa 418

<210> 21638
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 21638

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 taciaaagctg atcggaccgg gctgaataat gctattttca cctaaagtgc ctatgattta 120
 actgtgggttg atacatacgg tgtatccac tcgcggacag atccttatta agagggagag 180
 agtgaagaat acttggtcat gagcgcgggc agagagccac ttgatcgact gatgcgaacc 240
 atgactcagg ctacatcaat gtgtgcccac gtatcttata tac 283

<210> 21639
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 21639

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 aatcgctgcc catccttcgt ttaccgaggg atcttctcga aatccggata gcaacttcac 120
 aatacactcg atcatgatct gaccgttggg atctttgaga agatgtctgg agtgtgctaa 180
 atgcttccga taccgagagc atctcttatt caagcatgcc tactctgtgc tttcgagtag 240
 cttagaata acggaactac gccttcgttc tttgttgcca tgccattcct gaagtaacga 300
 taagatggtc cattatccac gaacgccatt acacctcacg aaccgtcggt gcttgacaca 360
 tcgaaaggaa cccgtctgcc gtagcgga 388

<210> 21640
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 21640

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tattttcaat caattcagtt tctctttcag gggttttcag ctttatcttc cctcctgctg 120
aagcatctaa caactgcttg gtttgcggtc tcagcccatc tataaacatg ttcaattgaa 180
ttggctcaaa gaatccatga gtgggagtct ttcttaacaa accccgaaat ctctccaatg 240
cttcaactca tgactcatca gggaactggt ggaatgatga aataacaaca ttcccttctg 300
cagtctttga ctcgaggaag tatttcttca taaatttctc aacaacttcc tcccatgtct 360
taagactggt gcctttgaat gaat 384

<210> 21641

<211> 426

<212> DNA

<213> Glycine max

<400> 21641

ttgtgtaacc gattacattg atttggtaat cgattattag tgattgtttc tgaataaaat 60
caaaagatgt aactcttcaa atagtttttg actttttcaa attgggtttt aagtttttct 120
aaaagtcata actcttctaa tggttgtctt gaccagacat gaagagtcta taaaagcaag 180
gctttgtttt tcatttcaag tatcttgaac acttattcat acaatccttt acaagccttg 240
aatctctttg aacttcttct tcttctttgt accaaaagct ttccaaagtt ttctgggttt 300
ctaaaccttg aaaacttggt ctattcatct ttctattccc ttctccctct gccaaaaaga 360
attcgctaag gactaacgcg ctgaattctt tctgtgtctc tcttatccct ttccaaaag 420
aacaaa 426

<210> 21642

<211> 368

<212> DNA

<213> Glycine max

<400> 21642

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catcggatgc cttatcacia gcgccaaatt agtgcctca ggtttcgaga gttcaagcct 120
gttaaactct tggacttgcc atcactatca agctgacatt tacttatgct gacacaagct 180

gagccttctt gcttagacga atccgacgaa gagttatcac tattaggggg cgcgaatgga 240
 tgggaaacag aacgttctac ataacacctt tccctatgag agaaaaccgt gacctgcctc 300
 ttatattata attctgatat acattctacg ttaggctaag atcttctaata taatgcacta 360
 ttatcctt 368

<210> 21643
 <211> 329
 <212> DNA
 <213> Glycine max
 <400> 21643

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 aatatgctta ggattatatt acaagcagaa ctgaatggat gatataattga accactgaca 120
 agtcttttac actgatctaa tcatgcgtta gacacatatt gtaaaatgag atcgactatg 180
 ataacaacta ctggaatact gtgataagaa catgatgtaa tgggtagata gaaaagccgt 240
 agactgacaa atgatcaaca ttgaactgaa cttaattcct ggcttagagg gcatgtggtg 300
 atgattcatt catctatgca agggccata 329

<210> 21644
 <211> 367
 <212> DNA
 <213> Glycine max
 <400> 21644

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 aagcgcaatt ccttacggcc ttaattgagg tccatgacgc taagcgccag tcatggcagc 120
 taagcgagat tctttgcagc aatatgagcg ctaagcgagt acctctcagc taagcgcggtg 180
 ctctctgtga cttaagatgc atcatttttag ctacattggc tagggccagg cttagcgaga 240
 gttgcagctt ttctaactctg caagtctcgc taagcggacg tactcttgtg ctatgccgag 300
 tttctgttca aaaaaaaaaat tcaaatgtga aacgtcggct aagcgcacgt gtctcgctaag 360
 tgagcct 367

<210> 21645
 <211> 428

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21645

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atagatgcaa ccttcatttt tttgcttctt cggctagaag caccagccta tttctcccag 120
aaattctatt agaaataaag attgacaata aagaagtaga acaaaatgac aaggtagata 180
ttaataccta agttaaaagga agattatgga caaaggattt ttttagcagcc acatatttgt 240
tagctctctt gaaagttaaa gtttgctctg gagaagggtc ctcttctata ttttccaagt 300
caatcgtctc aactcgatgt ttagccatca aggaaaatgt tagtagaata acaacgggta 360
aataagatac caaaagataa agctctacag aggaacttgt ttgaggagtt ggagaattac 420
tggtgatt 428

<210> 21646
<211> 371
<212> DNA
<213> Glycine max

<400> 21646

agcttatttt tgacaaaatt gaatttcttt ttcttatctt tgtagggact actcacaaaa 60
tccatttaca tttcttttagt gtcctatagg ccatgcacaa ggtagataag tcaaggaaac 120
acataaatcc aaaaataaag cacaattgtc aattaagctc aatcatttgc ctaagaccaa 180
aactaaatta aagtgagaaa ataagagaca aaaagaggtc taatcagata agaagaatag 240
aaaaatacta aactacagat gctcaatctc tcccttcctt tccctctcaa atcgttcgat 300
atccaccgag ttaacttagt ttgttaaggt actctccctc tatacctcga ttacacattt 360
tcttttgtct g 371

<210> 21647
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21647

tgggtgatgt tgcgcgtact gatgggtacc atgagggtgtt ttctgggggtt tgacccatgc 60

gggtgttgaa gagatggcat gggcatctcc ttccttcctt tttgcccctg ttgccccgat 120
tcttttggcg tttacgtttg tggaggaaac gtaatcaaac tttcctctct tcaatccaac 180
ctcgattctt tccctggcaa acaccagatc cgcaaagctg gacggcatgt aaccactag 240
cttctcatag tagaactctg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300
catgggagga gctacttgtg ccgccaaatc cctccatcgc tgcgcatatt ctttaaaggg 360
ttcacctct ntcttgaaca tattctgcag ctg 393

<210> 21648
<211> 320
<212> DNA
<213> Glycine max

<400> 21648

agcttattac tcctccatth ggatgtatct tgctgctcat gctcgaagct cgtccaagtc 60
cttgggttgc ttctggcaaa ggttgtcggc gaatggcccc attttgagtg ctatgatcat 120
agaatgcaat ccaacactag ggtcaaggct tttcatttta agagagatgg tgacgtacct 180
ctccgtgaag gatgataatg actaatcatt agcttgggtg aggttgacca aagcagtggg 240
tggttgtgtg tgagggctgc tggttgcata ttgcgcttca aaatggtaga ctaatgagga 300
gaaggagttg tcgcaacatg 320

<210> 21649
<211> 426
<212> DNA
<213> Glycine max

<400> 21649

taccatgtgt atgaatgaat tattatttgc atttaatttg agctgaaagt atgtatgatt 60
gattgaacct tgagcctgca caatttatct cctactacct tatcttaggt tgtaggagag 120
cgtcattcat agaaagaatc ttggttcaag gcaaatttgc cccaaatttg ggggagttac 180
tgggtgaaag tgtgaaatgg taagaaaata tcagcacaca gttcaaaaaa aactaattat 240
aaaataaaag tgtgtgtgtg tgctgccatt taataaaaag aaagttgagt gtaaaaaggg 300
ggcaagtaat acggttggga ataaaaataa aaagttgat ctatggatga atgctctcct 360
agaatctaag ctactgcgtc ctagaaaagc catgaattat ttgcagccta gcctcattac 420

aagcct 426

<210> 21650
<211> 324
<212> DNA
<213> Glycine max

<400> 21650

agctttaacc tcattgtctc tcacagtctt tagattcggg agccaatcca atccttgtgt 60
ccggactctc atccacttat gatagcgacc gatgatccca ttactgcttc ccctaagctc 120
tctgtccttt cttcatgccg catcccggtgc cttgcgaact ccttggagta cctttgcatt 180
ggggtcactg aaaccccggtg taatgaaagg cgtgatgctt tcgtctaata gcgctcctct 240
catggggtag ccaagctgtc ttatggcgag gacgggatta taattaatac aaccccatgt 300
tcccatccag ggaacatttg gata 324

<210> 21651
<211> 422
<212> DNA
<213> Glycine max

<400> 21651

tgcttgtgga gcttctatgg aggctggatc tttgagcttc aatgaggtcc tttaatggtg 60
gttttccacc atggagatgc aacggaagac aaaggagaag aggggagagg aggcgccatc 120
cactacggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
gcttggaaagg atgcttcaat ggaggaaaag aaagaggag agaaagagag aggggggagc 240
acgaaattga aggaataaag gagggagaga agtggaaact tgaaagatgt ctacaagac 300
tctcattcat caaagtgaca acaagtgtta cacatgcttc tatttataga ctatgtagct 360
tccttgagaa gctatcttga gaaaacttcc ttgagaagct tctttgagaa aacttcctta 420
ag 422

<210> 21652
<211> 67
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 21652

tttgtcatgc aagcttttct aacactttct ctcaatatga aatccacatn ngaaccnnna 60
ctcatcc 67

<210> 21653

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21653

gacctatgaa actcagctta tatttgggaa accaaggtgg taggctaata cttttcacac 60
ttgtttcttg tgcttcttga taagtcctat ttctttacaa gcaaaccatt agtagaaaaa 120
gtctaataga ctaaaaatct acttcttaaa aatttgttgt cattaaaaca ttaatttcat 180
aaatattatt atgttgagat catgagattt acattcatat gagtttttgg tgagttgttt 240
acaagaattc aaggtgttgg aatatcttgc tatgcatatt gaattatctg tgggttcatg 300
agtgtgatga acgtataaat ggtgaatcta tgatgttata acctctgttg agattagtga 360
atgaatntgt gatgacatat ggtattaatt tgaatgatca taacatacat gcattgatga 420
atgacattat atgtgagt 438

<210> 21654

<211> 376

<212> DNA

<213> Glycine max

<400> 21654

agctttgcag atttggctct cgccagtga aggatcaatg tgggtccgaa aagaggcaaa 60
tttgatcatc ctactaggac gactgagaaa actggggcaa ataaagaggg tgaggatgaa 120
ggagaaaccc atgctgtgat tgccattcct gtacggccaa gtttcccacc aaacccaaca 180
atgtcattac tcagtcaata acaaacctcc tccttaccca ccaccagtt atgcacaaag 240
gccatcccta aatcaaccac taagcctgtc tatcgactt ccaatgacga acaccacctt 300
tagcacatac caaaatcacc aaccaagaag tgaatcttgc agcgagaaag cctgtagaat 360
tcacccaat tccagt 376

<210> 21655
 <211> 426
 <212> DNA
 <213> Glycine max

 <400> 21655

 ttgagccaaa atcctgactc accataaacc ttgacctgtg tgataatgcc aatccttacc 60
 ctcggaagca aaaaaaggaa agaaggaaag gaaatttcca atcaaagaga aagcaaaaaa 120
 ggaaggaaag gaaattccca atcaaagaga aagcaaaaaa ggaaggaaag gaaattccca 180
 atcaaagagt gggagaaaga gaaaaaagaa aagaaaggaa attcccaatc aaagagtggg 240
 agaaagaaaa aagaaaagaa agaaaattcc caaccaaaga atgggagaaa gtaaaaaaga 300
 aggaagctcc tgggtcaaaga aaccagaaga aatgtgccga gaggtccttg gaccagacga 360
 tatctgaaca atacagaatt gcaccaaag aacaaaagaa agataaggaa accatgacct 420
 ataagt 426

<210> 21656
 <211> 381
 <212> DNA
 <213> Glycine max

 <400> 21656

 tagcttgatt aagagggtctt ctctaaaagc ttcctcgtgg cttctttgag aagcttcctc 60
 gtggcttctt tgagaagctg tctcaacagg cttctttgag aagctagatc cttatctatc 120
 cacaccctt tattaactaa attaaactcc ttaaaaaataa ttacggatga aaataacgca 180
 actaataatc aaacatcata cataattact aataatatat agatatatat atcaggggtgt 240
 tacactaacc ctttttgaaa cctacaaga tatcccttat ataggcccaa agagagagag 300
 aaccacaaa atcgcacaa atctctcttt tgtccttcct ttgtaaaaca tgacttgta 360
 ggtgagcaca gctcactagg a 381

<210> 21657
 <211> 421
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21657

tcttcttcca tggcttattc cctagtggat ggcacctcct ctcacctctt ctcttttate 60
 ttccgctgca actccatggc tgaaaatcac cattgaaaga cctcattgaa gcttaaagat 120
 tcagcttcca caaaagtttc ttaagcaagc ttccatcaag tagtaatcaa agcacaagag 180
 cttcaagtag gtgctcctta aacctccatt aatttttagc tttaccttct cctccattgt 240
 tgtttcttca tttttatcca tgtatctcct tacatgtctt gtgctaaatg ttgttaacat 300
 gatttttttag aatttccaca aattaaactt gctatagaag ctagatttga ttttctatgg 360
 ttcanatctc ttgttcttgt tcttgaacca tgaattgtgt tgagtttaag ttcctttgag 420
 t 421

<210> 21658
 <211> 363
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21658

agcttcaata aatggaccat tttaactttg gcaacttctt tcataattaa aagaccagaa 60
 aaatacataa taaagaaggg gagatggctc taatacaaaag ccataattat gactatgtgc 120
 tgtttctttt tcatccttta tttttctttc ttttttctat aataaaatgt gttattggca 180
 ttgattaaaa aaaaaagaaa aagaatatcc acttgaactg ttcacaatta tttctataaa 240
 aaaggagtgt aaataagata atagattggt catcatcctc tgggcattct cacacgtttc 300
 gagtgtgaat taataactct ctgaattttg aaatactaaa tcnaatttga tactattgat 360
 att 363

<210> 21659
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21659

ntaagcacc atgagtgttt cagcacccta gtaccattag tgtatgtagg gttctcttcg 60
 agccacactt ccaagagcag tgtagggggt tttgtgggtt cgagcgaggg gtttccggca 120
 ctattgaaaa taatgtggga caatgtggat gtcgaggag cggttttcgg aagatttcag 180

gcgggaggaa aaagacaaga gcgatttcaa gaaggaggac aaagagaaga gggagggcaa 240
 ggttttcgag cgcgcggggt gtgaaatgtc aagttttaac ttataaacat aacaacatcg 300
 tttttttaag gataaccgat gttaactgaa tatagttaac atcggttttg gaaaagccga 360
 tgtaacatc aaatagatta catcggttnt ttaaaaaaac cgatgttaag atcaac 416

<210> 21660
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 21660

agcttgccac ccagctcgcc caggcgagca gggttgcttc ctccagaagc aacagccttc 60
 tggaggaatc ttctggaggg cccaagtggg cctggttgct atttgcaccc ccatttttac 120
 taaatacacc cccctgcttt ttttttgtga ttcttttttg gtaaagtatt ggaaacatac 180
 gaattttgta acgatacttg ttttctttcc gtaatgttac ggaaccttgc ggatcacata 240
 atcatcccct ttctgactta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300
 gcatttgatc tccggtgtgt caccggaacct tacgaattgt gcatcaatat tgtcttttgc 360
 tttcc 365

<210> 21661
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21661

ttgagccaaa atcttgactc accataaacc ttaccctctg aagcaaaaaa ggaaggaagg 60
 aaaggaaatt cccaatcaaa gagaaagaaa aaaaggaagg aaaggaaatt cccaatcaaa 120
 gagaaagcaa aaaaggaagg aaaggaaatt cccaatcaaa gagtgggaga aagagaaaaa 180
 aaagaaacga aaggaaattc ccaatcaaag aagtgggaga aagaaaaaag aaaagaaaga 240
 aaattcccaa ccaaagaatg ggagaaagta aaaaagaagg aaaccatgac ctanaagtgg 300
 tcttctccct ttgattacca accaaaatcc tgtgcgctag cgactntntc gccccgcgct 360
 aaacaaaaac agaaaaggaa aaaagccaac caaaaatcaa aagccaaaaa cacacaaaag 420
 c 421

<210> 21662
 <211> 382
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21662

agcttccttt accccttttt ctcccccaag ctattctaag cacaccaagc tacgggatcc 60
 atgagtctag cagcccccaa gcctccattg ttggattttt gctctccctt ttgcgttttt 120
 gttcacttcc tacaagtaag tgcactatcc cttgattctt tggtctcca tcgatgtatt 180
 ttagtgctct aattatctat gtttggcaaa tttcgtgagg caattcatgt ttgatttgtt 240
 gaattanggg gttgtaggga tggccatgag cctatctttg attctgagat gaatgggcat 300
 gacacattat ccctattccc catttttttt catgtctaaa catgcgcca ccaagtgttc 360
 agtgaaatgc ctcaattcaa ga 382

<210> 21663
 <211> 424
 <212> DNA
 <213> Glycine max

 <400> 21663

agtcctaaat gacatttcaa gctaggatta tctttcttta acctccattt accacagaat 60
 tcagacttaa ccttccaact ctcaaagcct cattcttttt ccactcataa catcacattc 120
 tcactttcta accctagggt aaactctacc attcatctct aacagttttc cataagcaat 180
 ttcaacatat aaacatcaca aacatcatca caaaaaccct aaaacagagt gggatatgtc 240
 aactcatcca aacatggcaa tttcaacaag ctttcaacaa atgtcttcac aaataatcat 300
 cacacagcag aaacctagca agactaccca tcatatctcc caaaaccca taccacgaa 360
 atttaagaga gaaagaagtc cacccaaacc tgaattttcg aagaccact cgtagccacg 420
 cact 424

<210> 21664
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 21664

agcttcaaga gaaagatgtc ctcagcaa at tccttatttc cagaagggaa ttctatcaat 60
agacctccaa tctttaatgg agagggttac cactactgga aaacccgaat gcaaattttc 120
atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
cctagagata gatgggtctga agaggataga aaacgagtac aatacaactt ataagccaaa 300
aacataataa catctgccct aagaatggat gagtatttca gggcttcaaa ttgtaagagt 360
gctaaggaaa tgtgggacac tcttcgatt 389

<210> 21665

<211> 419

<212> DNA

<213> Glycine max

<400> 21665

tgcttgagaa gcttctatgg aggttggatc tttgagcttc attgggggttc ttcaatgggtg 60
atTTTTtagcc atggagttgt agtgggaagat aaaaggagaa gaagtgagaa gaggcaccat 120
ccactacgga ataagccatg gaagaagaaa cttcaccacc aagagagtgt cttggataag 180
aagcttaaag aggaagcttc aatggaggaa gagaatgaga gagaaagaga aagagaaaaa 240
gtggcatggg aatgaaggaa aaacagggag agaagttgaa ctttgaagtt tgtctctcaa 300
gattctcatt catcaaagtt gccacaagtg ttacacgtgc ttctatttat agcctatgta 360
gcttccttga gaagcttctt tgagaagcta gtgttacacc cctccaatag ctaagctca 419

<210> 21666

<211> 354

<212> DNA

<213> Glycine max

<400> 21666

cgcttcgatg gcaagctagt aacacggcat gcaaggtaca aaggcggaga tgatgatgtt 60
aatgggtatta acggcaacca caaatgtata ttatgactca atgactgtta tatagattta 120
tatgaaatac ctatacaagg actagtatcc actttgttaa aatctcaagt gataatatat 180
tatgggtctag tgatgcttcg gcactagatt aaaattctta taattaaagc gaccgatcgt 240

ttacaacata tgctcctgta tcagactcgc atttatcctg aggcattaca tgcgacttgg 300
agacatgtgt caaccctcca cgttgagaca ccctgtaccc cccacatata tgta 354

<210> 21667
<211> 208
<212> DNA
<213> Glycine max

<400> 21667

gctatcagag atacagtctg agctgatgag cactctgcta gcatgaggcc atatgcgagg 60
aggggtgctaa tttgatagaa agatctcaga ctagctcccc acagcttgtg caccggaacg 120
agtggcttac ttgactgaaa ctgagatacc tgcacaacgt atgaacttgt agagccaatg 180
atgctaattg catttactgt gactacca 208

<210> 21668
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21668

agcttgtctc tggaaaactct gctggcaccg aactgccta ttatgtaagt tcttccttta 60
actttattac tattatatta ttgtagaata ataaaaatac taataaccca ttaatggggg 120
ttactttctt ttatcccttt attataaaca ctgtcattca aagttaataa tagaaaacat 180
gccttttgtt tgcatttgca tttgcagtta tcttcaaaag gatcaacttg ggatgaaata 240
gactatgaat ttcttggaat tctgagtggg gatccatata tccttcacac aaacgttttc 300
agccaaggca aggaggacag ggaacaacaa ttctatctat gggtngaccc aactgctgat 360
ttccacactt actccatc 378

<210> 21669
<211> 407
<212> DNA
<213> Glycine max

<400> 21669

ggaacctgaa tgtcacaaaa cacgtcctta atatggataa gaaattttta atgtaactaa 60
atttcagatt aagtaataat ctgcgaacca actcaaaaga ttgaaattta ttaaaatata 120

taatgatctt gtcatagata caaactctaa ctacattgat taaaggaata ctttaatat 180
gctgtaaaaa aaaactttta tatarctgtt ttaacttaaa ataataaaca tcatcatggt 240
gatttttttg gttattggga tccaaaaata tcatgggtgt tgaaagggtt ttcgacccat 300
cctgatatgc tgagtgggtt tcttttagatt cagccgggta atgggccttg gtagcaaact 360
ccatattttt atttggcaaa taaaatgcag caaccctcat gtccacc 407

<210> 21670
<211> 368
<212> DNA
<213> Glycine max

<400> 21670

agcttgcttc tacaattact agtatgggac tcatgcgtat gcacgagtcg ctccgctata 60
tttttttgtt ttggtattaa aattgtgcct acacacgggt aagccgtgag aattgacaat 120
ataattatat ttgtgtcatt ataacactag acaatattat gatgtataac taattgagaa 180
caaaaatgaa tatgggttaa aaaattatga ttaacacata gtaaaataac tattatataa 240
gaaactgtta attaacaaag tcataatgtt caagagattg ttttttagcaa aaacatgccc 300
acaaaataaa gtgttaattt acaaatatta acaaaagtca gaataatatt aaacttaatt 360
cattaaca 368

<210> 21671
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21671

gcatccaata ccctgatgag gatgtcccat atgttcttaa gactggactg attcatttgc 60
ttgcaaagtt tcatggcctt gcaggtgaag acccgcacaa acatttgaaa gaatttcaca 120
ttgtctgctc taccatgaaa cccccagatg tccaagagga tcacatattt ctgaaggctt 180
ttcctcattc attacagggg gtggcaaagg actggctgta ttaccttgct ccaagggtcca 240
tcacgagctg ggatgacctt aagagagtat tcttagaaaa aattttccct gcttccagga 300
ccacagccat caggaaggat atctcaggtt ttagacaact cagtggagag agcctgtatg 360

agtactgnga gagatataag aaactatgtg ccagttgccc ncaccatcag atttca 416

<210> 21672
<211> 378
<212> DNA
<213> Glycine max

<400> 21672

agcttataag aacaaaattg cctcaatcat ttccaaatat gcatgtgaat taggaagcat 60
caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaagc 120
attatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180
tttcaaaaat atcatgacat gtagagaaga atcaagaatt tcaagtcaca aaatgtcaag 240
aacttttatt ttcaaaacaa ttaccatttt ctggaacata tcctataatt caaagaaaaa 300
catgcaaagt cgtacatgca caaaaatta acccataata ttaaactaac aaaccgacga 360
aactaccaac attaacaa 378

<210> 21673
<211> 429
<212> DNA
<213> Glycine max

<400> 21673

cccttatgct gcaaataattt acaatagacc tcctcaacct ttcagctaaa tcaaccacag 60
cagaacaatt atgacctttc cagcaacaga tacaaccctg gatggaggaa tcaccctaac 120
ctcagatggc ctagccctca gcaacaacag cagcctgctc cttccttcca aaatgctgct 180
ggcccaagca gaccatacat tcctccacca atccaacaac agcaacaacc ccagaaacag 240
ccaacagttg aggccctcc acaaccttcc ctcgaagaac ttgtgaggca aatgactatg 300
cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360
ggacaattgg ctaccaatt gaatcaacaa cagtcccaga attctgacaa gctgccttct 420
caagctgtc 429

<210> 21674
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21674

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tacatttacc aatggaaaat attacggata ttgtgttttt tgcattctta tggtggtatt 120
catgatgcag accttccagg agtcaatagt tgcagccggt gctggattag ccttagttga 180
ctcagtgggtg atctcttaac ctggcatgtc catctcttgg taataatctg tgtgtgtgtt 240
ttggggaggg gtaagtgagt ggatatggat atgtacatat ctacttcttc tggtgacttc 300
atactggana ggactatttg tgtgtgtgta ccttntttgt atctttaagc ttgtagttgg 360
tagaggggggt ta 372

<210> 21675
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21675

cagcaccctt ttgaagggtgg aatccttggtt ggcagtgccca agcaactgag aagacaaata 60
gagagaagtg gaggtgccat tggccattcc aatcccaacc atgaccacag ccatgcgttt 120
gcactgcttg gattggattt cagggaggag aagcacagat tgtagtactt ggtgttcttg 180
cagggtttttt ctatcaaact gtcattctct ttcacaaaag cgtgtggttg aaagagtgat 240
attgctagca agaggagaga tagatagaag atcttagaag ccattgagat agcaaaagaa 300
gaataaccaa caccgataat ttaagggact gcgtatntca naaagggttt tagagatttc 360
ctatttctgt ttttgacgtg ga 382

<210> 21676
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21676

agcttgtaga atggctagac atgatacatg tcagggtttg gtttggttca aggataaaag 60
ggatgccccca cattatttcc atgacacaaa tgcaaagatg atgatttgga aattttatgc 120
aaaactggtc atgcatgcac ctatgtggac gctcaagtgt caaattttta tggtcattgtg 180

atgctagggc tcangattca tttcctctat tttaaataca cccaatgttt ccaaaatatg 240
 ctcttttatc aatttatgca tttatcctag ttcatttcgt gcgtccgng aaattttcac 300
 agcattcacc cttcaggtgt agacacgttt tttcttcaaa aatcggttat gatctatgaa 360
 ttgtttt 367

<210> 21677
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21677

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 tcctgagtaa aattttataa ggtgcgctaa acgcccagtc aaaatttagt gttatttttt 120
 ctgtttttgt tgaaaataac ctatgcta atctctgtgt ttatcttata ttttgcaaat 180
 ggcattctaag aaaaggaagg ctcttcttac acctttccaa gtcagatatg atcgggtctcg 240
 gttcacatct caagaagctt aagagaggta caccgatatt gtggtgccta ggaaactact 300
 accagagagg aatgtggttag tttattttcac tgagttcgat gagttcaagg aggaactcaa 360
 gagaagacac tgggatgaag agttgactta ttntactgat ggcagcatag atgtcaccat 420

<210> 21678
 <211> 346
 <212> DNA
 <213> Glycine max
 <400> 21678

ggaaaactcc ctgaataaac cctacctcta atagtgaata tcacgacaaa ttgaaagaca 60
 tacaacactc ctgcgaccac cggaaagata tcgataaaat actctggctc cgaaccaga 120
 ctgttcagaa ccatccttta cacatgtgcg aagaacaata caatcgagct cataatgtgc 180
 gaaccaacat aataatccca catatagttc ttctctacct acccactata gcaatctacg 240
 tccattcaga caccatacgc acacctcact tcattcatatg agcaaccatt ccacccttct 300
 caaaagactc caacactatc tccttcacac ctttataaac accata 346

<210> 21679

<211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21679

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 cgcacactaa ctaaaatatg tgattgtctt acaaatagat atatcactca aaacttttta 120
 gttttttctc tcaagggtata caagggtattt tcagagctta gtatctttac aagaatttat 180
 agaaatcttt acaagaaata atgaaagaat aattcatcta aatgatatgt gtcttggttc 240
 ttccaagtat taggggtgga taaacggacc cagggtccatg gactggcccg cggttcgcgc 300
 gggtaacata ccaattnttt aatacagttc atggttatgt catatttttg ggcttgcccc 360
 gcttaaccgc cagattatgt gggtttgccc cacgggatcc gc 402

<210> 21680
 <211> 360
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21680

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 attcattgta tataggggaa gttagaaact gtatagcaga tccgtatgga tctgattttg 120
 attcttattc tgtatctgta attactttct ctaaaaaataa ataaatccat catgtgtgtt 180
 cttagacacg gactctctaa atcttatagc tataatcataa ttgaaacact taatagaagt 240
 gccaaaataa gaagtgggtgc atggaggtca cctanggcta gtggctgcct tggatgggtg 300
 ctgcacaaca ggatgactgg attcttgact cttgatcatg cccactggac atacgctcct 360

<210> 21681
 <211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21681

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 tggccaaggc tgcattggag atcctgaaaa ccaactcatga aggaacctct aaagtgaaga 120

tgtccagatt gcaactattg gccacaaaat tcgaaaatct gaagatgaag gaggaagagt 180
gtattcatga cttccacatg aacattcttg aaattgccaa tgcttgcaact gccttgggag 240
aaagaatgac agatgaaaag ctggtgagaa agatcctcag atccttgcct aagagatttg 300
acatgaaagt cactgcaata gaggaggccc aagacatttg caacatgaga gtggatgaac 360
tcattggttc ccttcacacc tttgagctag gactctcgga ta 402

<210> 21682
<211> 365
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21682

tgtcgaggct atggcctgag caaatgccat attggcggca cggaattctc tcacatgacc 60
tacacgctat aatggtgagg ggtacctctt ctgcaaaacc cgtcagccaa tcttcattga 120
tgcacgctat cgagatatat gggaatccac atgtataggg ccgtatatac actccttagt 180
acaattagtc ttcaccccag tgagtccata caatgaacgc atatccatat gagcacctct 240
agaatacatg ccgacgagga tagaacacga gatcaatact actcattagg caaacacata 300
gtaacatctg tcctangaat ggaagaatac ttcaagggtt catattgtta gagagctaaa 360
gaaag 365

<210> 21683
<211> 397
<212> DNA
<213> Glycine max
<400> 21683

tcattaagag gcttcctcca gatgcttcct tttggcttca ttgagaagct ttctcacgag 60
gcttctttgt gaatctagag ccttatctat ccacaccct ctattaacta aattaacctc 120
cttaaaaaata attacgaatg aaaataacgc agcaataat caaacatcag acataggtag 180
taataatata tagagatata tatcagggtg ttacagctgc tactaagact gcgacgcctt 240
ttgaaaactg atattggaaa agtggagata taaaaacttc agcactgtag atggaacaga 300
taaaataata aaaaatacac tgacactcca tattggatcg aatggccacg gactaattaa 360

gaaaggcggg tgagatgatt atgaacgtgt cttgact 397

<210> 21684
<211> 384
<212> DNA
<213> Glycine max

<400> 21684

agctttacaa gctctatata cagtaggatg gtaaaacttt tcattttaag aaaaggaaag 60
aagttgatat ttaaattatt ttgagcttct tttcattttt caatattatt gattgaagtt 120
tgagagttta ttttgcataa ctttagtcta caactttgac tggttacatt acctataact 180
tgctttttgt tcttttttagg tttaaagtta aactctagat ctatgaactt agtttatggg 240
gtaaaccaag gctagtacac tacactttga ggaagttcaa agccagctaa aagtcaattc 300
aaactttgat acaaagtac ccagaataag gactgaaact ccttctgtaa ctgcctatat 360
cagtaaatat tacaacatc aact 384

<210> 21685
<211> 410
<212> DNA
<213> Glycine max

<400> 21685

tagcttcgaa ccaaaaaaac aacacatttc tattttgtga gtgtatgaat tacatactga 60
aaattttaca aggataaatt ccgaacattt tgatatttat aagaacaaaa aatatatttt 120
agccttggtt ttattgttaa aaaaaaaaaa gagagaaatg ctactaacat tttctttaac 180
acactccttc atacacactt tctcttatgt gttaaaatgt atttagttga agaacaagtt 240
ccacaaaatc ttgaacctac caagtgtgat ggttgggatt ggtatgagcg cgaacatttg 300
ccttacacat ttgacgtgac tgtcactgca atggaagatg cccaacacat tcgcaatatg 360
aaagtggatg aactcattgg gtcccttcac acctttgagc tacgactctc 410

<210> 21686
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21686

agcttgtaga atggctatac atgatacatg tcagggttg gtttggttca aggataaaag 60
ggatgccccca cattatttcc atgacacaaa tgcaaaaatg atgatttgga aattttatgc 120
aaaactgggc atgcatgcac ctatgcggac gctcaagtgt caaattttta tggcatgtg 180
atgctagggc tcaagattca tttcctctat tttaaatcaa cccaatgttt ccaaaatatg 240
ttcttttatc aatttgtgca ttcctccaag tccatttcgg gcgtccggag aaattntcac 300
agcattcacc cttcaggtgt agacacgttt tttttcttca aaaatcgggt atgatcaatg 360
aatttttttt tttttttaa 379

<210> 21687
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21687

ntggaaagtg ttatttttca ctttctcgct aagccaatat gctggcttag cgagcatccg 60
ctaagcgcaa cactcctggc taagcgcgag gaagaatcca gaagaagatg agttgtacag 120
attcgctaac cgcaccactt catctctcta agtgcaccgc tttagttcat tcgctaagtg 180
agaaaggcgc cctaagccaa aaatcactaa catgcgctaa gcggtccata cgtgcgctaa 240
gtgcacgagc acaaacaagg ccacctattt aagccttaaa ttagattttg tgaggggagt 300
gtggactggg attcagagct ttacatgtct aggggtttcta gagagagaaa gatccaagtt 360
ccagagagtt ntgagagatt ntgttgtgtg aagatntgca gagaccggag ctcgaagc 418

<210> 21688
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21688

agctttgagc caaaattctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
ttaccctcgg aagcaaaaaa gaaaagaagg aaaatttcca atcaaagaga aagcaaaaag 120
aaaagaagga aaatttccaa tcaaagagaa agcaaaaaga aaagaaagaa aattcccaat 180
caaagaatgg gagaaagtaa aaaaggaaga agaagaagga aagaaagctc ctgatcaagg 240

atcgaaagaa aacagaagaa atgtgcagaa aggtctttgg accggacaat atatgaacaa 300
 tacagaattg tcaccaaagtg aacgaataga aggaaatgaa accatgacct anagtgggtct 360
 tctcccttta attgccaacc aaaatc 386

<210> 21689
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 21689

tagccatgga actaaggcag aaggaatgta ccgagccatt caagctgatt aaagttatat 60
 ggagtccacc cttgtccctc ccaccatcga agccatcgga cctcaatttg catgcatcgg 120
 acctcagttg agttttaaga ggagtgtatt gttaggatat aaggagaaga agagttagtt 180
 aatatagtta aactactaat gagttagtta gttagagaga tttattagat ataaatagag 240
 gaagaaggat aggagagaag gggatcttat catttgtaga ttgagcatta gctctttgtg 300
 aaaggagaaa tcctttgtga aagggaaacc cttggaggag agttttctct cctattttct 360
 gttcttttct tactagtcaa taaaatcttt tattttcttt ctcatctcaa ttcttggttc 420
 ttaac 425

<210> 21690
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 21690

agctttatgt tagttaaagg aacttctata cgtcatgggt cgagcacaga aggagcactt 60
 taattttaag catgggtcttt cacgatggaa aggcaattca gatttcocaa tattataatt 120
 tgtagtatta aatatgcatg gtgaattgtc atgtttatat atgaaactca ttttttgact 180
 tttgaagagc ttacattcaa ctttagatga attgacactc gactaaattg cctacttaat 240
 gtttttatgt tatagaatga ttattataat ataaaataaa taaatgatgc aaaataaaaa 300
 attcaaatat atataagttt aattttgatg taccataagt gtaaaaaaaa ttatattatt 360
 aaccaaatta tatattat 378

<210> 21691
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 21691

aaactctgcc gtgaccgcag ttctggcccc catagtcatt gccctccctc ttccttcatt 60
 ccttatgcgg tgctgaaga tgaggtaaac caatcgcatc tctctctttc actcctcggt 120
 tcacttatca aaggaaatcc gaatctaatt atgcgtctgc tctaagctga gacagccaga 180
 gatttggtat agatatttcc gattattgat ccgaaagctt aggcgaccag caagcacaat 240
 atctttgtca gtgtcttgag gaagcggctc caccatcctg ggtagacatt tcaatctgga 300
 agattctggg acattgcatt aatacttatt tct 333

<210> 21692
 <211> 121
 <212> DNA
 <213> Glycine max

<400> 21692

accgggcagg cctataggag tcgaatatga ataccgtgac gctttgcaga tctgtcacgt 60
 gaccttacia gattccattt cctaataacc aggcacaaat gaactcctgc ttacatcatt 120
 t 121

<210> 21693
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 21693

tttggttcat atttcgacga ccaatccttc ctattgtact tctttgttga agaaattttt 60
 tctgtgattc ttacataaaa gattcataaa atactggatc tccaccaaca caagcaaatg 120
 gtcgataaaa ctccaaaatg gcattttctt tcgaccctat tattttttta tccttatcat 180
 ttaggaaaga aacgaaaata tcaggataac aaacattctc tagaatttcg cttaaattcg 240
 aacccatagc tgatgataaa actagaatag atattttctg tttcctactc acacgagccc 300
 atatccttgc ttttctatca atctctaatt ctaattctacc ccccagttct gatattatgg 360
 tgccagtata gaccgaaatt ccgctaaggt ccaattctga acggtataaa ataccaaggc 420

tt

422

<210> 21694
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21694

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tccaaaaaca gttgaaaacc gctaaaccat cagttttcac ggttttacac cggtttaacg 120
gttttctgtc cggattgtta attgccagtt tcagagatta tccggaccaa atgacaggcc 180
gattttcggg tcaaccgata gaactcgggt ctgtccaatt ttcaaaactt tgatgaaatg 240
ttaatacatt ataaaaatgaa ctangcatgc actntaaacg gacatccatt tatgatctat 300
tatcatatat gtttgtgaaa ttctataata attatntaa aaagagatat taaggatgat 360
ttatgaatgt aagt 374

<210> 21695
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21695

tttgccatag tgaacaaga cccttgatta atttgaattt ntgaagattt gctagggaaac 60
tagtcatgac cccttaagtg ataaaatcac ttgtcacaca aaataattag acagcataac 120
gaatgcaatt atagctatct aaataaacat aacaacaat ttgctagggg tcaaacaccc 180
ccaaacccaa accacaacgc gtatagataa aaatggcaat atgcagagat atatataata 240
gaaaataaat tttcatgcca caaatataat ttccagagtt cacactctgt ctgtcttata 300
attcaacaac aataaaaaata aatatgtgta taaaattata tgtgcgtgca tgcatatcaa 360
taattntatc atgagagaat catcacaatt tcaaacatg cagctcaaca atataataac 420
aaataaa 427

<210> 21696
<211> 377

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21696

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agcttgccgc cacggagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60
agagagcaag atatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggg ttgactaatg 300
atatccgtga tattgttgag ctgcangacg ttgttgaaat ggatgatttg cttcaciaag 360
caatccaagt ggagcaa 377
```

<210> 21697
<211> 426
<212> DNA
<213> Glycine max

<400> 21697

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gatctgcaga caaatagctg ttatTTTTgt tttggtagct atagttgtta tttttggctg 120
aatgtttttg tggtcacttt ttttgatcca tttttgtgg gaaaaatagt tggagccctt 180
agtttgggtca gatttgaaag ttccaaaaaa gtagcaaatt tgatttttgt caaaacttca 240
aacgaccata acttttgctc cggttatcag aatcacaatt attatatatg tatttggggg 300
aaaaaaaaat ttcccatgcc gtggcagcct gccataggct ggctgaggtc tccttcttcc 360
aaaaattgcg attctgtcaa aaattattta tttccaagt attattctct tatttttctt 420
aactta 426
```

<210> 21698
<211> 272
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21698

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agcttttctca atatttgtgg atngatgctc ttaagacgac tgcgtatata tggcaccgag 60
```

ttccaaccaa cgctgacgca tagacacctc ttgagttatg caaaggatgg aaaccaagtg 120
 tgctacatat actcggttagg ggatgcccga ctgaagcaag aatccataat gcacgcgata 180
 tgagactaga ccctaatact atgactaggc atttcatcgg atatgcggaa aggtctaattg 240
 ggtatatggg ctattggcca tcccacaaca ct 272

<210> 21699
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21699

tatatataag agtttttctaa taaatctcat ttgctataat gatgtaaata ataatttcta 60
 gtatttttaaa tcatgatcca gttatagaag cagttactag aaggtagatc agttacaatt 120
 ttcaccgggc aggcaaattt ccattacatt ttgtgtgact ccagatgata ttgattgtcc 180
 ctatgctcga tccttgatca gcttacaggt tatgactcat aacctgattt tagtggtcat 240
 actcatatca ttatcattac atgctaattc ctcatgggtc atgatgaagt ctgtatataa 300
 aaatactaca tgcattgtatg tgtacattgt ggaaaaatac tgccaacacc ttatngtggg 360
 ggaaaagtct tgaaaattat gaccaggcct t 391

<210> 21700
 <211> 360
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21700

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 attccgagta ctttggattt ggtacgacca tgccctcctg atttccagct gggaaattgg 120
 cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaacctt tacggtttta 180
 aaagctctat agttgggcct aggctttaga gtttttcctt ttgttaaggc tttgtgtctt 240
 ttgtttttga atttataata caaggatctt tcttcatctg ttcttgggtc ctaccattc 300
 tcattcactt gcatgtttac ttctttntct gaaacggcag atccgatgac gaggcccccg 360

<210> 21701
 <211> 408
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21701

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 ttaaccttga cttggtaaaa cctcttgccg gtttgattag tcccatgct tactaaagtg 120
 agacaaaaag ctggtgcaaa tcaaaactcc gatatctcat ggggtgggatg gatgaatgca 180
 tgaaggaatg catatgacac agctgtattt taagaatgcg ggtgcccggg acattgtctc 240
 ctttttagac acaacgtcta ggggtagcaa agtgccccaa tgtatgtatt taaaacgggtg 300
 acccggaacc tccattgatt ntgtctatag aggggatcaa gacagaaccc ctatgcaatg 360
 catatgcaaa aggcgcaata gcatgaaaat attcactgaa cataagca 408

<210> 21702
 <211> 368
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21702

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 acgaatgcat attcaattct tgtgttcgtg ttcatatata tattacactg gcatacaatg 120
 catgtttatt ttctttaaga tgctgccatc tgtccaattt gtttgctata tatgagattc 180
 attaaatgtt tgggtaaggc aattataccg tccccgcgag tcataccatt tgtcattggg 240
 catatgcata gattaattca taaagttttt tttagccaaa tcattntata gtttgtgttg 300
 cagattatat aatgttttag aaaaaaagta aatatntaa aatatatatt attttactaa 360
 attaatat 368

<210> 21703
 <211> 345
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21703

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aatatgtttg aactttgaag tacacaaaag gatgtgaaag tgatgcaaac atatagcatt 120
gaagcatacc aagtaagtaa aaacgtactc caatatgacc agctccagaa gaaagaaata 180
gctccattaa cttgggttaga agacattgtc tgcattgtgc atagaaacac tgttattaat 240
gaaaccattg cacatatagt tcttcaatta accacaattc ttttcaactt ttaataatat 300
aaagttccaa aaaccttcct ttcaaaggaa aagggggggg ggggg 345

<210> 21704
<211> 388
<212> DNA
<213> Glycine max

<400> 21704

agcttaatgt catagttttc atgggtgctag tgataacaat aatgataata ttagtaatga 60
tgatagtata gtgacaataa tgataagatg atcatgatat aatagtgata atggtgacaa 120
aaatagcaat agtaatagag atgatgataa taatgataat agtaataatg atgacaataa 180
cgatgataat cgcgaaagta ttaagtatac ctttatttta ttttaggttt cattacttat 240
ttgatgtcac tattttattat tgcattcaat ttgggtcttta cttattttaaa aaacaagtaa 300
ttcattaggt cttttttggt caaaactatt tattttattta tactgggtta agttaaatca 360
acattatttt ttttataatt aatgcttg 388

<210> 21705
<211> 421
<212> DNA
<213> Glycine max

<400> 21705

tcaccaccaa gaaagtgcct tggataagaa gcttagatag gaagcttcaa tggaggaaca 60
aaatgagaga gagtgacatg gaaattgaag gagaataggg agagaagttg aactttgaag 120
tgtgtctcac aaatttctta ttcttcaaag ttgtgacaag tgttacacat gtttctattt 180
atagcctacg tcactaacta aatgaaattc acttaatttc atgtgaatct aaaagaaata 240
ttccaagaat atgtcaaagg aatcttagca tattcccttt agatgccaca agcatgggag 300
gtgtgactct agcacatggg aaacttcatt gagaagcaag gaagaaagct tccttgagaa 360

gctagagggt agctactgac acccctctta tagctaagct cactcccttg ccaaaatgga 420
c 421

<210> 21706
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21706

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cagggtctttg attcttcttt ccttatttca tgccaccaca ccaatcctat tctgttcttt 120
tccttcatat atcttatttt cttttgcttt ctctgttatt ctacttgctc aatcctcttt 180
gcgtctttaa tttatgtttt acaacttttt catgccattc cccgtagacg gtgaaaacca 240
tgccattcgt tacaacgata gaggaggatg tcaacctcca attggactga agggactcta 300
accaaaccgt aatattccga ggtgataaag ntctcattct atatattata tgacattctt 360
gttatataat tganataata gaaca 385

<210> 21707
<211> 428
<212> DNA
<213> Glycine max

<400> 21707

tgcattgattt acatctcccc ctttctcaag caaattcttc ttgatatcat caaaatcttc 60
atgattttaca ttctccccc ttttgatgat gacaaccacc tgtaggtag tagcaacaac 120
aaagaaaata tctatttgca tatagtttac tcccccttg ttttacaatg attgcttata 180
tgagacaatt gaagatttca tatttttcat atataaaaag ttgtctcata aaacaataga 240
taatttttct tactatttta tcttttatct ttctctcccc ctttgtcaac atcaaaaaca 300
aatcatgaat agcgaggaga aagatgtttg ttgcaatgta tgagaatcaa gtgataccaa 360
aaggatttaa atcaatcatt caatattaat caagcaaaaa caagtgcaat aacacatcaa 420
tcacacac 428

<210> 21708
<211> 371

<212> DNA
<213> Glycine max

<400> 21708

cgctttgcac gcacgtttac tagcattttc tagcacgaaa ccgtgatacc tcatgccgta 60
ctggaggcct ctgactcctt acacaagcgg tgggggggggt ctaagttcag agacctatga 120
tgctcgcagt gtgtcataaa gaattctact aaactagtca tgaggggaaa ctgtgcacat 180
aactgggact ttatatgatg ctctattcaa gacatttaag aacgttatct ttgttgatga 240
gagatactac ttgcatttgc acctgtccac ttgcatgcat ctactttggc tccatgacga 300
gatcacgcgt catgagtggg aggctacaga ctatgatgaa tgatattaag tgatagctta 360
acctaaccac t 371

<210> 21709
<211> 414
<212> DNA
<213> Glycine max

<400> 21709

tgtatgctat gcaatgattg gatgtgcacc aaagactcta ttatatgata ttaatgctac 60
ccttagctat gttggagggtg gaacaagaaa tgggatgaaa tatatatgca aatgacaata 120
ttaccctgat gctagatact aattatcata tatattccat cacttagatg atctacttat 180
tatactaatt tatagactga agaagcacac gatattatgg agatttccat atatagtgag 240
atgctctctg gatgcttccg ctatacatca ccactttgtg aaaatgtgat actggacgtc 300
agtgacatga ccaaggaaat aatatgctgt aaccttacta catctcttga gagtacaatc 360
attctatgag ttgtcatagc actatgtgcg agactctgag catatcatac ccat 414

<210> 21710
<211> 389
<212> DNA
<213> Glycine max

<400> 21710

agcttgtgct cccatgttac gggctagtag tttgctttta tcagttcttg ggccaccccc 60
tgatattgga gggcgaccaa ctgtgcaagt acaaccagag gaggaggcag gtctccagct 120
tcgacgagga ggctatcgca tagctactat gcataccagg gcaagatttc gctcagaccg 180

ctgcaaggag acgagtacgg atctgcatac caccacaact ctgatctcct cctgccgaag 240
 agttagctgg tttatgccat catgacatag gtaagtatgc acgtggctca attgatttct 300
 aatgtcattt attgtttgca gggattgcac ccacaagaca ctcaagtgggc ccggagaagt 360
 ccaacagggt cctgggggtt ccagctctg 389

<210> 21711
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 21711

tctcccccaa tttcctataa atagggggag aagtgaagtg gtttaggggtt cagcccctta 60
 tgcacttctt tctctttcga atttgctttg aaaaattgtt tccgtgaaga aaatccaagc 120
 cgaggcgtt tcgtaacgtt tccgtgagga atttcgcgaa ggttttcgac cgttcttcga 180
 cgttcttcat tcgttcttca gcgatcttca gtcttcaacg agtaagtacc tcaaaccaag 240
 cttttcaatt cattctatgt acccgtgggtg gtccacattg ggttgcattg attcttattc 300
 tcgtttcatt tactttctat accccctttt gacgtgctta agccatttta tttaagtcatt 360
 ttctcgctta acctcaaact aaaataaatc tccaccgatc 400

<210> 21712
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 21712

agctttcaaa accggtcgat tgaatcctcc ctcccccaaca ctctcgccat cgcattgtaa 60
 gttgccccat cttgcttaaa catcccactc tcctccaacc accggaaaaa tatcaatgcc 120
 ttctgtgggt ccgaagccaa actctccaaa accatcttaa cgacatcacc ggagaaccct 180
 acattcaagt ccttaatctg cctctcaaca tcatcatccc acacattgtt cctcacaatc 240
 ctacacacta tagcaatatt cttctcattc aagttatcat acaaaccctt caacttcgcc 300
 acatcagcaa ccattccacc cttctcaaaa gactccaaca ctatctcctt cacaccttta 360
 gaaacaccat acc 373

<210> 21713
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21713

tgngaattggc ttataccact aaggtgcccc tgcacacaaa ataactttgg ccttgaaggt 60
 tggacagagc taacctttta ttagtagaat agacatgggt aggatgaaac tccttcctac 120
 cagaggagca gcccattgagc taaaaaacta ggtagaacia agagctgaaa aatatctttc 180
 aggaattggc aaaaatgatg catcaatatt acattcacc c atattagtgt ttaagtgaag 240
 aatgatagca ggggggaaag atagtaagaa gtgtactagt cagataaagc aaggagagaa 300
 gtagtagatt tcatactaga gcactagtgt aaaagccacg atccccacat aattaggtat 360
 agagatactt tggatttgaa aactttacac gtatgcatat atgccaagtt ga 412

<210> 21714
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21714

agcttaacaa ttccaactac ctcttttgggt gtcaacaggc tgaacctggt ctcaaaggac 60
 atcacctttt tcatcttctc actaaactgc agattccgac tcgatatctc accattgctg 120
 attgtgatgc tgggtgttact tcgcctgagt tcttgctttg ggagcaacag gatcagctcc 180
 ttctattgtg gcttcaatct actgtttccg gcgagggtgct tccgcgggctt gttggttaca 240
 aaactgtgtg gcatcttttg gacaagctcc acacacactn ttactccatt gttcgtgtga 300
 naaaacggca actccacaat gatttacgta acattntttc taaacaatag ttcaatttct 360
 ggctatttgt 370

<210> 21715
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21715

tgactagggcg agttgatttt agccttagtt tcacttttagt tattaatcaa ttcgattaag 60
aatgagaaat cccaaagaga aaacgtccga ttgattttcc gctttatttt actaaaagat 120
gtttttcgat tatttatatt attttttacc tctttttgat ttccatcgtg gttacggcac 180
gaccgaacgg tcggaattta ttttaaccga agttaatgga taatacaatt caaacgttcg 240
gtggaaattt attttatttt taagttaagc gagaaatgac ttaagtaaaa tggcttaagc 300
acgtcaacag ggggtataaa aagtaaacaa aacgagaata aaaatgcacg aaacacaatg 360
tggaccacta cgggtacata gaatgaatcg aanagcttgg ttcgaggtac ttac 414

<210> 21716
<211> 379
<212> DNA
<213> Glycine max

<400> 21716

agcttggaga ggatgcttca atggaggaaa agaaagaggg agagaaagag aaaggggggg 60
agcacgaaat tgaaggaaga aaaagggaga gaagttgaac tttgagttgt gtctcacaag 120
actctcattc atcaaagtta caacaagtgt tacacatgct tctatttata gactaggtag 180
cttcattgag aagctttctt gagaaaactt ccttgagaag cttctttgag aaaacttcct 240
tgagaagcta gagcttagct acacacaccc ctctcataac taagctcacc tccttgaaaa 300
gcttccttaa gaagattcct aaagaagcca gagcttagct acgcatacct ctctaatagc 360
taagctcacc tccttgaga 379

<210> 21717
<211> 421
<212> DNA
<213> Glycine max

<400> 21717

tcaagaatta atggcctcat caaactactt gttcccttag gcaattcaat taataggcct 60
cctattttta atggagtggg ttaccactat tggaaaaccc gcacgcaaat cttcatagag 120
gctatagatt taaacatttg ggaagccata gaaatagggc tttatattcc caccatgggt 180
gctggaaata caacaataga aaagcctagg gaagattgga gtgaggaaga aagaagacta 240
gtacaatata acttaaaagc caaaaacata attacatctg ccctaggaat ggatgaatac 300

tttagggatat caaactgtaa aagtgcaaag gatatgtggg ataccctcaa gtaacacatg 360
aaggcacaac aaatgttaaa agatctagga taaacacaca ttaactcatg aatatgaact 420
a 421

<210> 21718
<211> 88
<212> DNA
<213> Glycine max

<400> 21718

agcttctaaa ctttatacaa gaatgaagct ctgataccac ttgttggaca agtggcctca 60
gatatcttaa gaaagggggg gggggggg 88

<210> 21719
<211> 428
<212> DNA
<213> Glycine max

<400> 21719

gcttctcaag gaagttttct taagaaatct tctcaaggat tctacctagt ctataaatag 60
aagcatgtgt aacacttggt gtaactttga tgaatgagag tcttgtgaga cacaactcaa 120
agttcaactt ctctcccttt ttctccttca atttcgtgct ccccccctctc tctttctctc 180
cctctttctt ttctccatt gaagcatcct ctccaagctt cttatccaag gctcatcttg 240
gtgggtgaagc tccttcttcc atggcttatt ccctagtggg tggcgcctcc actcacctct 300
tctcctttgt ctccgctac atctccatgg tggaaaatca ccattaaagg acctcattga 360
agctcaaaga tccagcctcc atagaagccg cacaagcaac ctccatcaa gacttacaac 420
tcttctag 428

<210> 21720
<211> 331
<212> DNA
<213> Glycine max

<400> 21720

cgcttgtcga ggatgttttc atgggtgaaa agaaattgag aacgggggat cactatattg 60
ggagaataca cgagcgcatt atatgcaact ctgaatggta tctcatagca ctttccttga 120

tcacaggtac agcattggca tcacatgctt cgatgtatat actaaggaac tttcctgaga 180
agctttcata ataatactta cttgacaagc ttctttgagc aaaagtcctt gagaagactg 240
agtttagcta cactcaactca tgtatacact acgctcacct ccttgagaca cttgcttggt 300
aagctagagc ttagctacac acacccctct a 331

<210> 21721
<211> 421
<212> DNA
<213> Glycine max

<400> 21721

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ttagaagccc tccaaaacct aacaaatcaa gattttctaag tcattaaaat ttcgagtaaa 120
taagcaattt agtccctgac tttgtacccc tgttgcatat tagtccctaa cttaatgaaa 180
aatccaaaat agtccctatc tttgcataag tgttgcaaaa tagtcattgt cgttacattc 240
aaaggtaacg tcgttaatga ggtgtccacg taatgctagg tagactaata tgcattctcat 300
gctgcttaca cttctctctc tctctccgct gctcattctc agcctcttat caccaatcat 360
gccgcttcca catggaagaa cccaaccca agccaattct acagaaaccc cctagttacc 420
g 421

<210> 21722
<211> 357
<212> DNA
<213> Glycine max

<400> 21722

agctttgagc aaattcaaac gacaataaat ttttactcag atgtccgatt gtgtcctgta 60
gtttatcgag acgctcgtga ttgaaaatgg aagttcgtcg caaattcaaa agacaataaa 120
tatttacttg gatgtccgcc tgagtcccat aatataatcga ggcaactcgca attgaaaacg 180
gaagctcggt ggaaattcaa aagacaatat atttttactc ggatgtgcta ttgagtccca 240
ttatatatcg cgacgctcat aattgattac ggaagctcgc tggagattca accataataa 300
ctttttactc ggatgctcga ttcattcctt aagtatatcg agacgctcgg aaatcac 357

<210> 21723

<211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21723

ttgagcaaat tcaaacgaaa ataaattnta actcggatatg tccgattgtg tgttgacta 60
 tatcgagacg ctcgtaattg aaaacggaag ctcgctcgcaa attcaaaca caataaattt 120
 ttacacggat gtcggattga gtcccataat atatcgagat gctcgtaatt gaaaacggaa 180
 gctcattata aattcgaacc gtaataactt tttactcgga tgttcgattg tgtcccgaag 240
 tatatcgaga cgtcaaaaat tctgaataga ggctcttagt aaattcaaat gacactaact 300
 ntttactcgg atgtccgaat gaatcccgtat atatatcgag atgctcgaaa ttgaaaacac 360
 aagctcgtag caaatgcaaa ccacaataac ct 392

<210> 21724
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 21724

tttcatgcaa gcttttagctt taaaagattc tacatgtttt tattatttct ctttttacta 60
 cattttatta tttttttata tgactattat tatagtaata ttatattggt gatagtgcaa 120
 taggcatgat aatagctact agctagaaat agtgccgaaa ataggtatgg ggaagcatgt 180
 tacaataaca tcaatacaaa aggcaagtac gaagaagtgg gtggcaacaa tgccagtcca 240
 aaaaaaacac aaataaacta cgggttatca attttggttaa aaaccatttg aacaactttc 300
 ataagtttaa atgaataatt gatccaatta caggcttata atgacaagtt atcgatttct 360
 aattc 365

<210> 21725
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21725

ttgagccaca atcctgactc accataaacc ttgacccatg gtgagaatgt caatccttac 60

cctcgggaagc aaaaaagaat acaagggaaa tttccaatca cagaaaagag atagaagatt 120
 tccaatgaaa gatgaaaaag aacagaaaag aaattcccaa tcaaagagcg ggagaaggaa 180
 aaaagaacag gaataaaatt ccctaccaa gaatgggaga aagtaaaaaa ggaaagaagc 240
 tcctgggtcac agaaaccaca agaaatgtgc agagaggtct ttggaccaga cgatatctga 300
 acagtacaga attgtcacta aatgaacaga taggaaggat aggaaaccac gacctcaaat 360
 ggtcctctcc cttaattac caaccangat cccgtgctgc agcgaccctt ttttct 416

<210> 21726
 <211> 343
 <212> DNA
 <213> Glycine max

<400> 21726

agcttatcaa acttagaaat caagtgatca tgtattccga aatatagggg gagtaaacgc 60
 atgcacattt tatcaatata caattgtttg ttgcttgctt gaatcttgat ttcaggtatt 120
 gtattgtcat catcaaaaag ggggagattg tagatgcaat tggctttgat gttttgatga 180
 tgatcatgat gatgtgttgc aattgatgca aatgggcttt tcaagattaa aattcaagac 240
 aatacttcaa gattacaagt cacaacatca agatgatcac tagaatatta ggaagggaat 300
 tcctaattga attagcaaag gtttggccaa gtgatttaaa atg 343

<210> 21727
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21727

tcaacatcag accacttcca ggggtgctgga tctacttcac atggatttga tggggcctat 60
 gcaagttgaa agccttgagg gaaagaggta tgcctatggt gttgtggatg atttctccag 120
 atttacctgn gtcaacttta tcagagagaa atcagaaacc tttgaagtat tcaaggagtt 180
 gagtctaaga cttcaaagag aaaaagactg tgtaatcaag agaatcagga gtgaccatgg 240
 cagagaattt gaaaacagca gggtcactga attctgcaca tctgaaggca tcatctatga 300
 gttctctgca gccattacac cacaacagaa tggcatagtt gagaggaaaa acaggacctt 360
 gcaagaagct gctaggggtca tgctccatgc caaagaactt ccctataatc tctgggctg 419

<210> 21728
 <211> 325
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21728

 cccaccccc acaatagagg cgcaaccaaa nnnnnnaag agggatgac tcagcacagn 60
 aangccgcgg gaccaaccac gacattttta caacagaagg gggggggccac ccacgcaccg 120
 cagagacaca cacacacacc gacaaaanag aaaaagaaca aaaaagcccc cccacccaac 180
 cccacacac agaccaagca ccaacacaac cccacccacc cagcccaacg ccacaccccc 240
 cgcgagccca cacacccccg aaaacacacc cccagacacc aacccccacc aacagcaaaa 300
 cccaacccg ccccccacgcc agcgc 325

<210> 21729
 <211> 392
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21729

 gcaaccgaaa agaagaacga agcagaaccg acacaccanc caccgcgag cnatgaccct 60
 gaaccgaaa cccaaccca gacgggagaa aaccgcccgc caaatatcg agggcccggg 120
 ggccgagcag gaagngcgca ccgcgccaaa ccaagcaaag aaaggcgacc gcgcggggcg 180
 accagcccc gccgacgctc aaacgcggac aacaaaaagc acaacagacg gaacagggca 240
 cgaacacgaa aacccccag aacacggaaa acaaacaca caaccgccc ccaagcggac 300
 acaaaacaag cgacaaaaaa gaccaccca aacccccaaa acaaaacccc gaaaaaagca 360
 gcaggcgaaa accagaccaa caaccgcaa cg 392

<210> 21730
 <211> 407
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21730

agcttcctta ttanagaacc tctgtgctg agatcttcac attagcaacc cagataacat 60
 cttttccagt aggccacctt aagggaattt tgtaattcac tgggtggcaga actaaacaat 120
 tctgcctaag ctcacggccg cattgccggt caacttcatt gccatcggaa actcccaatt 180
 ccacattctc agaaacattg tagcaaggaa caaagttttc aaactcctca gaacagaatt 240
 ccgactcctt caacctcaac ggaccacgag aaaactcgcc aatatccaaa aggtctgaga 300
 caagcttctc ttgaagcctt ctataacat ggtaaagtgt acctcttgat gaggatgaaa 360
 tcgacaaaagt ccaccataaa gatccagtaa gagccataac aactata 407

<210> 21731
 <211> 179
 <212> DNA
 <213> Glycine max

<400> 21731

ggaatggtga tgcaaaaatc aactgagctt ggaatgaaaa tgcaaaaatg atatttggtt 60
 gggatttttt gttataccgt gcagaagctt tctagcctcg tggacgtgac ctcataagtc 120
 tggagatgta gagctaggta ccgaatgagt ggttttttaa ttggaattaa aaaaaaag 179

<210> 21732
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 21732

agcttgcat ttatatgttt cgaacaaatc tgatagggtga aataaatatt tttttttaag 60
 ttcgtatctt gtcacccaaa tctactaaaa aacacactcg tccccgtacc taaataatga 120
 tgtgaaaaaa ttttttttga agaataaaaa atgtataaaa ttagaagatt ttttctttca 180
 ttttttaagc taaaatatat cacactaaaa tatatcaact tttataatag tattaacaaa 240
 taaatattaa agtgtaata ctaaaatata ctaacattta taatagtctc aatattaaaa 300
 gcatcaaaat gtcttacata ctggtttata tcggtaatcc gcaagtcggt agataaagtc 360
 cactaggcta aactaaaaaa tttaatatag ttatccagat tttt 404

<210> 21733
 <211> 278
 <212> DNA

<213> Glycine max

<400> 21733

atgaatcgat acaaaacaat cgcatgttaa gaagatcaat cctcactcgt aaaacagctg 60
gttgagtcct atcatcatga gccttacaga aaaatgctgt gaggcataat ttgctaatt 120
gtatcacaaa gtcaaataat tactctcaag ctggcgacct ccttgatcat tacttgatat 180
acatagcctc tcattcttgag cccaaaataa gtgcctgagg taagactggt tcttgatgaca 240
cagccacaat tagatcattt ataaactata caccctgt 278

<210> 21734

<211> 409

<212> DNA

<213> Glycine max

<400> 21734

agcttgtcta tagaggcca ggaaggacaa ggcggccgaa ggaactagtt ccgctccgga 60
gtacgacagt caccgcttta ggagcgctgt acaccagcag cgcttcgaag ccattaaggg 120
atggtcgttt ctccgggagc gacgcgtcca gtcagggac gacgagtata ctgattttca 180
ggaggaaata gggcgccggc ggtgggcacc actggttact cctatggcca agtttgatcc 240
agaaatagtc cttgaatttt atgccaatgc ttggccaaca gaggagggcg tgcgtgatat 300
gagatcctgt gttaggggtc agtggatccc gttcgatgcc gacgctatca gccagctcct 360
gagatatccg atggatgatg aagagggcca ggaatgcgag tatggccag 409

<210> 21735

<211> 386

<212> DNA

<213> Glycine max

<400> 21735

tcctcggggc cattcctgcg aaggcaaaca ttggattgt agtttttttag aaatataaca 60
atcattacaa acaagggcc aacaacactt ctcatggcac gagggtcaac atgcacttta 120
taaaataatc atattggggc cgtgctatct tatgacacat acgtatttgc acacataaaa 180
atattgtgtg aaacatttta caacacctat ccatgtacat atttttttga caaacctttt 240
caatgctaca tcctatatat atacacacat tttttggaag gcttcttttg ttacctactc 300

acaaatacac atatitttgaa aaacactttt acgctaccca tccaacactg tgtaaggcac 360
 ttcatgctat atatattcat attatg 386

<210> 21736
 <211> 407
 <212> DNA
 <213> Glycine max
 <400> 21736

agcttttcta ctaagttgcc tgatgcctga aatgtctttt ctgatggcag tggtcctaga 60
 tgcagggaag attttctcca agaacaccct cttaagggtca tcccagctga aaacggacct 120
 gtgagcaagg tagtatagcc aatcttttgt cactccctcc agagaatgag gaaaagcctt 180
 tagaaagata tgatcttctt ggacatcagg gggcttcatg gtggaacaaa aaatatggaa 240
 ctcttaaga tgcttatgag gatcttcacc tgcaagacca tgaaactttg gcagcaaagt 300
 tattagtcca gtcttgagaa catatgaaac accctcatca ggatattgaa tgcacaagct 360
 ttcataagtg aaatcagggtg tagccatctc cctaagagtc ctcttac 407

<210> 21737
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21737

aacttttagct tgcctcacag atgtccagga aggacaaggc ggccgattta actagttttc 60
 ttccggagta ctacagttac cgcttttagga gcgctgtaca ccaacagcgc ttctaagcca 120
 tcaagggatg gtcgtttctc cgggagcgac gcgtccagct catggacgac gagtatactg 180
 atttccaaga ggaaataagg cgccggcggt gggcatcact ggttactccc atggccaagt 240
 tcgaccaga aatagtcctt gagttttatg ccaatgctnt gccaacagag gagggcggtgc 300
 gtgacatgag atcctgtgta aggggtcagt ggatccccgt tgatgccgac gctatcggcc 360
 aactcctggg atatccgttg gtggtggaag aaggccagga atgtgagtat ggtcagagga 420
 ggaaccggtc tgat 434

<210> 21738
 <211> 403

<212> DNA
<213> Glycine max

<400> 21738

ttgctatctc aatccaagaa tcatatatct tgatttcaat ttgtgcccaa tattctgacc 60
gtttagattgt acaattagaa gaaagaatta gtgaaaattt agctataggg tggccaatt 120
tcagtttgggt cccaaaaccc ttcttagggg aagagctact atagagttgc aacccttggtg 180
cctgtactaa ggggggaaact tttggggcca gggccatgtg aattccaaat ggttctgccg 240
aaaaaagttt caatccaaag acttttgata attatTTTTT aaaaaataa tataacgtgc 300
ctatcggagg aagattattg tagcaaacaa gttctacatc atcaaagggtg gttcctttca 360
ttaatttttag gttgactacc aatagtgtgc gtataatata tga 403

<210> 21739
<211> 528
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21739

tgagcatcnc ttgatccat gataccttgc antacgaacc tatgaaactc aactaaacgg 60
aatgcgcacc tgaggggatt ttcgctactt tattgcgact nnggcagaga gtgactgctg 120
aaatatgatc acttgagaca ctagtagatc gacaaccatg cgatacattt ggataatctc 180
tcgggtgggggt catgctatat cttgcaatca ccgtggccaa gtatacttcc tcaactttatg 240
agtaggttag cataatagcg tcgtagacga agaaataggc tagagttgac tctactgaat 300
caggattcta aacttgcttt ggacctactc acttgagaaa atatcaacat gtttcatcaa 360
tatttcctta ccatcatgct gatccattca ttgaagctaa gattgattgt gaggcgacct 420
ctttgcacgt gatccgtgaa gggaacaaat gtgcaaaatg ccttgaaata caagaaactc 480
ttcttcacag gatttgatat tctcgagcta tctcctctgc ctataccg 528

<210> 21740
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21740

tagcttttct ttaacaatgg gcgntgtctc taaatggaca tatatttatt cacatgcgta 60
tgaattntat agccattgga cgtttaatat ttgcattcaa tgcagatact tcttcatggt 120
agaaaattac tcttggttaac tttcatgtag aacacttcaa cagaaaatca cttcctttgc 180
gtcagagcag gtttgtcata gtagggcgtg tcttttgata cttttgatct tcaaagtgtt 240
gaacattcct ttgtgcttct tacgattcaa caaaccttan gagaatacta tactgtctaa 300
gaaagttcct gcaaaacaaa tttcaaacac acaatattaa atgaagctct tacatgcact 360
ttttaatgct atatcagatc atggagtgtc tctgcta 397

<210> 21741
<211> 337
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21741

cgtggctata cgagacatct ttccaaacaa agtcagggtta gcgataactc gcctgtgctt 60
tttcttccat gctatatgta gcaaagtcac tgatccagtc aagtttgatg agttggaaaa 120
tgaggccgca attatactgt gccagttgga gatgtatctt caccctgctt tctttgacat 180
catgattcac ttgattgtgc atctgggtcag agaaatcaaa tgttgtgggc ctgtntatct 240
acgggtggatg taccgggttg agcgatacat gaagatctta anagggtata caaagaatct 300
atatagtctg gaagcatcta ttgttgagag gtacatt 337

<210> 21742
<211> 406
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21742

tactttgcat ggaatgncaa gcttaagcct cgaaaaagtc atgctcaagc cccacgtgat 60
gtgtagttct tcaagatctt cttgctttgg tcccaccatt agctattgct taagttctct 120
tgcttcttta ttcgaaataa acaaaaaatt aagatgagaa attaccaaaa catgcatggt 180
aaggctattc taatttatct acatcataaa tggttaaaaag ggcaaataaa gtttagaagc 240
cctaaaatac taagataatt gcctcaaaat cactcaaaca aggttcacta ggtaattatc 300

aattgttttaa gatggaagaa gccaaatcta ttaatgagat gttcagtaaa cttacaatga 360
tcataatata tgtattactc cctcagataa attttttgtc tagtca 406

<210> 21743
<211> 296
<212> DNA
<213> Glycine max

<400> 21743

gggaagctgt atagttgcat gcttattaat gcaatgtgga tgcaacattt tggagtcaag 60
gttactcagt tggttggggg atatgtatta cagatcataa aggtcaattt gtgccaacta 120
agactatatt ttccgctggt ggtcttgatc ttatctacgg tgaagctttg ggccttctac 180
aatgctttat cgtgggtagt acaattaagc cttccttccg tcatctttga aatggattgc 240
aaatccatat ataatcggtg cttaatgaag tagcaatgta ttgagtgggc ttattc 296

<210> 21744
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21744

ttgctttaca tggagctacg ttaagactga agagggaaga gagccttcta gtagcaaccc 60
ttgactcggt catgggggat ccgcagctac gacaacaaat ttgtgtcagt tgggtgctgtg 120
gatgagagag attgaaaact gcaccattgc cacgaatgag agagatcgac aaccgctaca 180
tcatcacgaa cgagggtttt tcaatcctga actctttcgc tcaattgtcg tcaacacacc 240
acatcaaata ctagccacca ccatcaaaag cctactatga acgagggaga ctgcaactgc 300
tccatgacca caatctacgg agaagggttn tgaactttga ttattataaa atcaaattaa 360
aaattattgg tgttttaaaa ccatcagtat gtgacaacta gtaaaaag 407

<210> 21745
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21745

ntggcactag agtcactcaa agaagaagag atcattgtat ggatttcaga cacaatttta 60
ggcttcctat cacattcact tgagtttttc aacgacaatg tgaattctga gaagtactct 120
caagaataca aggtgaaatt caataaagtg ttgaagagcc agtggggaat agatccatta 180
tttttaggct catatagtca tatggcagtt ggatcaagtg gtgatgattt aaatacaatg 240
gcatcatata tgagggttaa cattntgttg tttgtgtatc ccaaagcaca aaggagggtta 300
acatagttct gagagggtggc atcatatatg agaccaggat caagtgttct attatgttca 360
atctcaccag ctcccatagc a 381

<210> 21746
<211> 410
<212> DNA
<213> Glycine max

<400> 21746

tatctttcta aggctatgag aggctaaacc ccttttggtg ggagcctgtc atgccgaact 60
ttttaatgta atttttttcc attatctatt taatgcaatg ttgtttttga tcattcatat 120
aatgtttata gggtaatgca ttgaaaaatg gttattttct aaaaaattat ggaaaggat 180
ctaaataaat tcattggtag aaatagatag atatttgttt tgccaatttt tgcattctta 240
atcttaatgc ggtttataat ttctatctct acaaacaata ttggggagaaa ggaataaata 300
atttacgtta ttcgtgtggt ataccaaaga tccacgtctt tatatatgtg ggtggatata 360
gggatgtcat gagatagaga atatattcac cattgcatta caagtaattt 410

<210> 21747
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21747

ctccgctgct tcttcgcaaa gaatnctagt ttttctgtt tggacccaac cgccaatcct 60
aaaggaagac tgcttgtggc tatacaccct gaaaatagga cccgatggact gagtactgca 120
catggcgctg ctatcactag aagatatgac cttctgttta ttccccagta atacgtaata 180
tctttctgcg catacacttc cttttactac taatattgga gcatatactg cttatattct 240

agaatcatta tctgactatc cttaagcataaatgcatgac tgattatcat atgcaggccc 300
tg 302

<210> 21748
<211> 406
<212> DNA
<213> Glycine max

<400> 21748

tctgtttgca agttttgcat catcttgggg taacttctta atgctcttaa atcaaacaac 60
tatcatttgg aaagtagaaa gtatggcatg agaaaagcta agggcatagt gtgatacggt 120
tgtcaccctg ctaatcggtc ctaagccact aaagacacca gtgactttat tttgttctca 180
cgctatgggt gaaaatgttt tggacaacaa aagtgttaat taacttgaat tctatatcgt 240
caagggttga agcatttttt ttttaacttc taaaccttat ctttggattt tattttgacg 300
ggctctgagat cgatgggctc tgctaacaca acggagcgat tgcggataaa ggggccgaaa 360
agatgacagg aaatgccatt gcttcgtgta cctcatatat tgctta 406

<210> 21749
<211> 287
<212> DNA
<213> Glycine max

<400> 21749

aattctagtc aacaaagcaa aaattcttgt gtttaacact tttattttac ctaattgaca 60
ttattattgt atacagctag acttgtgatg gttttaagct tgcttttctt tttgattaat 120
gacagattac tgcactggtc acaacaaacc tgaacaaagt aattgatggt aattactacc 180
cagttgaaaa tgcaaacgg tctaacttgc ggcacagacc aattgggtatt ggagtacagg 240
gtcttgctga tactttcata cctccttgca tggcatttga ttcacca 287

<210> 21750
<211> 394
<212> DNA
<213> Glycine max

<400> 21750

agctttctct accggtgaaa aaacattgtc ggccagcgct tgtaaaaaaa ttgcgcaatg 60

tcggctgaaa aacatcagtt ggggctgttt aactaccgat gctggctact gttttttcta 120
 ttccacccct gaataatact tggacgatgt cgatttggaa atgttcgatc ggagtcaccc 180
 ggtcatgctt ctttttaaga cctcgatctg tcattctttc ctggccgacg tcagctagca 240
 tttttttcga tcaatatcgg tgaatcatgc tttttgcaa ggtgggctaa cgttttcgtg 300
 gctcatgaaa tgagagcatg ccagtgtctg ccgaaacaca atctcgcacg aaaaacccta 360
 gccgacctac attgtacatt ttgtaggcaa tacc 394

<210> 21751
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 21751

ttgcagcaga ttttattaat gtttcactaa cctagaatta aaataactta atgccattaa 60
 cctaggggaat taaaaaaaaac ttaatggctg agtgtaactg acattgtggc aacaaaaaat 120
 ccccccaac agccaacaag tcagccacca tttggtctcc caaaaggctg atgcctacgt 180
 tgccaattgg gcccttatta caacttgaac taaacctaac taaagccctt ttagttgatt 240
 aacccaaaac atatttttgg tcagtcaact ttacaacgat tggggcatta tttaaacaaa 300
 cactctataa ttgatacagg tgggtgtcatt aatcctcctc attggg 346

<210> 21752
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21752

agcttatgtt cgttggctgc atgaggtaga tgatattggg agtacatcan cattctttgc 60
 ttgaggttgc cctgccactc gcaacctaat aaagcctcat gcagttcctt ctacttttg 120
 ggatgtaaat ttgaaccctg gaaagtgttt tttttgtgtg tgtgtaattg tgaaagaaga 180
 aaggatgata ataggtatca tagcctacct agtttttgtt taatgatatt tatatctgtg 240
 tggttgtgca agaagaaaaa atgagaatag attgagcttt ctatcaggaa aaagtaaccg 300
 tttgtattga gacaaatatt ggaatggcat caattccgta gcctgaaaga ctgcatttta 360
 tcttccccgg aacataatac atttgagagac ataaactatc caggctcaat c 411

<210> 21753
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21753

tgtaacctat tatgactntg atgaagagca acgcatatatt cttggcctct gaantttttt 60
 ccttatcttc cagtgtgcc tttactctta ggccttggcc aaaagaatga gtatcatatt 120
 tatatgtttg ataataataa taatattttt attttttttc ttgatacatg taaaagacaa 180
 caacataaca taagttaaaa agattttaatt tcagttgatt gagttggata tatgagttat 240
 tataagtttt ttaattttca cggataaaaa aaaaaaagag aactaacaca aacttttata 300
 tatgcatatc aaattgaaac ggtaacataa tgactccttt tcctttaatt tgcttctttc 360
 aggagagatc atcatcaatt gacatggaat catgtgtgcc tccaggattt agatttca 418

<210> 21754
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 21754

agcattgatt gaggattgta ttgttcatcc ggtgtctgaa aatcccaccc aaggttatca 60
 aattcgagag tttaacaaaa ctcgtaagag tttcatagac tcgactcgta aactcaactc 120
 atagactcgt aagagtctac ttcatataaa aataataaca aaatatctat aaataacata 180
 ctaattaaac atttcaacca tataataaag caaaatagta aatcataaag ttcagaatat 240
 ttaaataatc aagtctagta ataatacatg actactaaac aataacttgt aaagggtata 300
 gtagtggtag atcattctca ttgaggggtt gatgttatta gagaacaaga gtttgatatt 360
 attagaggta agaattttat atttgagaat aacacgctac atgaaggat 410

<210> 21755
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21755

tctatgtggt tntaagaatg atgaagatga gaagagtttt gagaatgtat cgaaagctct 60
 cttttgtgcg attattttgg atcctcttta gaaatgtaca accatctttt tctttcttgt 120
 cagttggcat aggatctttg gaattgggtc agtaacttgt tgcaatgtcg cataaacctc 180
 acgtcccagt tatccatcct gcatgggtcat cagaataata gcaagcaagt tcaagatggt 240
 tatgttgcaa ctatttttaa tgttgtttgg tatatctaga tcaatagaaa taactctaga 300
 ttcaaattaa acatggcggt taaagaacaa gattattgcg gatgttgctc gcgcangtaa 360
 ttatagtttg gaataaatat ctacgccccaa gatccaatcc atcatgttat caattntaat 420
 aaagaaattg tctt 434

<210> 21756
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21756

agcatgatgt ttttgccatg ttaggatgag ttagacatac ccattctgnt ttagggtttt 60
 tgtgatgatg tttgtgatgt ttatatgctg aaattgctta tggaaaactg ttagagatga 120
 atggttgagt taacctaggg ttagaaagtg agaatgtgat gttatgagtg gaaaaagagt 180
 gaggctttga gagttggaag gttaagtctg aattctgtgg taaatggagg ttaaagtgag 240
 ttaatcctag cttgaaatgt catttaggac ttatgagaaa gcttggactg tgctagagag 300
 ataaacatat gaccaaagtg aacatagagt catttctagg gcaaatttgg gtgttgaaga 360
 gtcaaatttt gattcgggtga gattttacgt gtaaaccat ttgaac 406

<210> 21757
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21757

ggcaacaatg gtggatgaga ganaagaaga ttttgctgcg tgtagagag ggagagcttc 60
 tgaattttct tttggctgag tgaggagaga gaacagcttt tggctttaa aagggttttc 120
 tcttttctta ttattttatt taagctatgc cacatgtccc catttgagtg gagcaaaaag 180

ggccccacttt ctcttttgat tgtgacccat acttagtcac aaaaagtgag aaaaatctga 240
 cctttgaaac gctaaaatcc tgccctcggtt tgcgtgctgt ttctctgggt ccagttcctc 300
 gcgtttctct gcgtccgtcg gggccagttt tcgaaagtag gcaatatata tatcaaaacg 360
 ctcaaaataa aaccccaagc gttgttcaga agttggtttc gttaaatttt aagtcgca 418

<210> 21758
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 21758

agctttcctt tggtttctta ccttcccaga aatagcgtcc cccaatagaa accaaagcat 60
 tgtgccatac atacgtaact ctctctctct ctctctctct ctctcactct ttatattaaa 120
 gctttccatt tcttagtttc aaaaaatttt ctttttctct ccacagaccc ctctcatggc 180
 atcttcttct ggtagtttag acacctctgc aagtgcacac tccttcacca acttcacctt 240
 ctccacacac cctttcatga ccacttcttt ctctgacctc cttgcttctc ccttggacaa 300
 caacaagcca ccacaggggtg gtttgtctga gagaactggc tctgggtgttc ccaaattcaa 360
 gtccacacca ccacttctc tgectctctc tccccctccc atttctcctt 410

<210> 21759
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21759

ctttgcttcc aagcagctga tgggggagag tgtgcttgcg cttttgaagt tttgcaccgg 60
 cgagaggggg gatggattta atgaggctgt tcaaagagtt gaggcagtct gtggccaatg 120
 attggggagg ttacacgcct tccgttgtgg aggaggataa ggagtttttg gagaagaagg 180
 aaaagattca ggagcttgag cagcagatca ctgggtgcac tcaacagggt ctatttggtt 240
 tttatgtttt cggatgaatca cagttggatt ctatttcaga tcattagtct gtgtgtatgt 300
 agctgtttta cttgtgttac attcttttac tgagcttatg accaatgttn taaatngtga 360
 tcatggttgc attatttgtg caatgtaata ttgtcacaat actttacatt gcgtgcacaa 420

gt

422

<210> 21760
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21760

agcttttgtg tacaaagaat aagaagtttc aaagagattc aaggcttgta aaggattttt 60
ttagattgat tggattgatt taaaatgcaa aacaaagcct tgctttcata gactctccat 120
gtctgggtcaa gaggaccatt tagaagagtt atgactttta gaaaaactta aaaccaatct 180
gaaaaagtca aaaaccattt gaagggttac atcttttgat ttattcagaa ataactactg 240
gtaatcgatt accaaatcag tgtaatcgat tacacaaagc ttnttgtaaa aagaatgtga 300
ctcttcacat ttgaatttga atttcaacgt tcaagtacac tagtaatcga ttaccanaac 360
attgtaatcg attacaactt tttgaaatca attggaacgt tgtaaattca gttgaaagct 420

<210> 21761
<211> 420
<212> DNA
<213> Glycine max

<400> 21761

tctatggagg ctggatcttt gagcttcaat gatgtccttt aatggtcatt ttccaccatg 60
gagatgcagc ggaagacaaa ggagaagagg tgagaggagg cgccatccac taaggaataa 120
gccatggaag aaggagcttc accaccaaga tgagccttgg ataagaagct tggagacgat 180
gcttcaatgg aggaaaagaa aaaagggaga gaaagagaga taggggagca cgaaattgaa 240
ggaagaaaaa gggagagaag ttgaactttg agttgtgtct cacaagactc tcattcatca 300
aagttacaat aagtgttaca catgcttcta tttatagact tggtagcttc cttgagaagc 360
tttcttaaga aaacttcctt gagaagcttc tttgagaaaa cttccttgag aagctagagc 420

<210> 21762
<211> 400
<212> DNA
<213> Glycine max

<400> 21762

ttactttacgt tgttcattct gaacgtacat cttcttgtat tgtttaacaa gggcattttt 60
 aggttcaaca aggacctgtg tctcacacgg tattgtaaaa aacagtggag ttcagagagc 120
 tggtagaagg ataaaaataa aaaatgatga actttacatc tcattttcag aaacatttgg 180
 atgtgcaacc ccaaactaac agaaatggaa aaaaaaaaag aaaaaataag aggaacgtga 240
 taaaaaaggc acggtaggct tgaaacatct aatgcatgtc ataatcctcc agaaataaga 300
 ttgaattttc atctttcatt tcacccgtag tgagggttga acgtttgttc aaactaacag 360
 aaataacata gcagaatggt atcaccagaa tgatgcttgt 400

<210> 21763
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 21763
 agctggcgtg aaatggcttt atgtgattct ggcacaatct aacgttaacc atgttcaatg 60
 aaagtaaaat acttaaatta ttactctaaa catacttttt tttttacaga taatctaaag 120
 atacttgggg tattgaacgg gtctaaaaaa tctagacatc aatattaaat ggatccttta 180
 aagagatgcc aacaaggtga gtctagactg agttatggag aaagattgag tcggatgtcc 240
 ttttaaagga tctggctatg tcgttctaac ttctttgcct ttgttcgagt ttcccatgta 300
 ctcaacccaaa aaaaaaacag ttcttgacat caattctatt tcttatatat ataataag 358

<210> 21764
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 21764
 ttagctttgt ctcatgtagg tccaggaagg acaaggcggg cgaaggaact agttccgctc 60
 cggagtacga cagtcaccgc tttaggagcg ctgtacacca gcagcgcttt gaagccatca 120
 agggatgggc gtttctccgg gagcgacgcg tccagctcag ggacgacgag tatactgatt 180
 ttcatgagga aatagggcgc cggcgggtggg caccactggg tactcctatg gtcaagtttg 240
 atccagaaat agtccttgag ttttatgcc aatgcttgcc aacagaggag ggcgtgcgtg 300
 acatgaggtc ctgcgttagg ggtcagtgga tcccgttcga tgccgacgct atcagccagc 360

tcctgtgata tccgatggtg ttggaag

387

<210> 21765
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21765

gtgaagattt ggtcttttgcc agtgaattga tcgatgttgg tatgaaaaaa ggcaaattta 60
gncatgctgc ttggacgaat gagaaaactg gggcaaatga agaggggtgag aaagagggag 120
aaacccatgc tgtgactgcc attcctatac ggccaagttt cccaccaaac ccaacaatgt 180
cattactcaa tcaataacaa acctcctcct taccaccac ccagttatcc acaaaggcca 240
tccctaaatc aaccacaaag cctgtctacc gcacttcaa tgacgaagac cacctttagc 300
acaaaccaa aaaaacacca accaagaaat gaattntgca gcgaaaagcc ctgaggattc 360
accccaaatt ccggtgtcat atgctaactt gtccccatat ctacttgata acg 413

<210> 21766
<211> 406
<212> DNA
<213> Glycine max

<400> 21766

tcttctttgt tctttttata aaatgagaaa ttctgaactc atcacgttat ctaaaaaacc 60
ttgggggtgga tccaagtgtc ccgatcattc attttcatat tcatgttttg gtggcatgct 120
caccgttggt tgtttcttta gggaattcac cataactaag aaagcacaaa ggcacccta 180
taacactcga tccagaaaaa tggataatga agagggcgtg caagagcaga tgaaggccga 240
tctattggcc ttaaaagatc aaatggcttc tatcacggag gccatgctaa aactgcagaa 300
aactctagag gataatgcca tggcaaccgc ctccaatgca gttagggaag cggaaccagt 360
gctacagccc acgataaact tgggccgaga tagaaacccg acggtg 406

<210> 21767
<211> 398
<212> DNA
<213> Glycine max

<400> 21767

tctaaacgga tctcatctag ctcatTTTTgt tgcaactttc tttcctctcc agcctgatca 60
atagagaagt tgcaggtctt tacagcccag taggctttgt gctctatctc tacaggaaga 120
tgacatgcct tgccaaagac aacccgataa ggagacattc ctatgggtgc tttgtaggca 180
gtcctatgcy cccaaagagc atcatctagc ctgggtgctcc aatcctttct gttcggctgc 240
acaatcttct cctagatcct ttttatctcc ctgcttgaaa tctcagtctg cccattgggt 300
tgggggtggt atggtgtgtg tcgcaaccta ccctttggcg ggcgagcgag gtgagggctc 360
acgggtgcyt cttccatagg aggaaaatgc gcggagtc 398

<210> 21768

<211> 409

<212> DNA

<213> Glycine max

<400> 21768

tagcattata ctatatatat atagtatttt tttataaaat attaatgttc gagggatatag 60
ttatcgctct tcgtccttaa ttaataaaaag cgaattagtt aagagaatta gagaaacaca 120
tggaggttga attgatagga aaaagacaaa taatttgcaa attaacatgg tgcgaactgg 180
gaataacaaa aaaaacacat cacctatatc attatctctg taaaaataag ataattattc 240
atttattggg attggggatg agaccggata tttatatcta attttttggt aaaataaatg 300
taagtatgaa tactataata tccatagtgt cccacacatg tatatcatat atattaaata 360
ttaatgtaat taaaatattt ttcttaagta aataattata ttatacata 409

<210> 21769

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21769

accttagaaa ctccgcttca atattagggg cataattgat tttaanttaa ttctcttatt 60
ncttttgat ttgactaaat agtaaatacc aacatcatat gataattggt agccttatct 120
tgatttcaaa ctactaacgt ccgtagtctt ctcgccatt ttattgatac ttgattcaag 180
gaattggttt attcttttgc atgcgattaa agatctcccg gacgcccaga aagtcactga 240

cagaagtggc gaagttgatg gtgtacctca agaatgacta catccttagt gtgtattgaa 300
 tttcattttt attaaatatt aattatttat aatgaactaa ttatctgttg tgatattttt 360
 cttttggctg ctggataccc a 381

<210> 21770
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21770

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 tatcttttaa aagtctcact ctctttcgct tgtaattatt tctaactcaa acaaaattat 120
 ctttgtgaga ctcatccatt cattttgtta aatacaccct cacaagaagt tttattattt 180
 tgaatttttt tacacaattt cattactaca actatgcgtg cgtgaatgta tcaattttta 240
 gtcctcgggt ttgatcttct tttcactaat ttcaaaaatc taataaaaacc cttttaatta 300
 agtataattt tatttgaagt agacattatc gtattgtgac taacaattgg tttaaataat 360
 ttactctaca tataaatata aataggtatc ttaaacagaa ctttcta 408

<210> 21771
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21771

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 gtagtattta taagccta atcaattggt taaaatttat aagttaatat aacactaatg 120
 tatctaaagg aaaattaaaa aaaagaacca aaataatata atacatttta aaaatataaa 180
 aaatcagaat gaaaatttta aaatttaatt tatatataaa gtgaaaaatt gcataacata 240
 agtgccatta agtctttttt attatatatg agaagagtga aaaaaaaaag aatgggatat 300
 tttcatgctt cgatttaata cataacaaat cttttgaaaa attaggatnt gtgttggtga 360
 atattttact acaaaagatc taaatcttcc tact 394

<210> 21772
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 21772

tggttgcaa gctttgacca tttgaatggc tcaagcgctt ccattgttca atatcgagcg 60
 tctcgatcta ttatgcgctt gaatcggacc tccgagtga aagttaagac catttgaatt 120
 gctcaagagc ttccattaac caatttcgag ggtctcgata ttttatgttc ctaaatacaga 180
 cctccgagtt aaaagttatg tccatttgaa tatctcgaga gcttccgttg cttaatttcg 240
 agcgtctcta tatgtgatgc tctgaatcg gacctccgag tgaaaagata tgaccatttg 300
 aatatctcga gagcatccgc ttttcaattt cgagcggttcc tatatgtgat gcgcttggat 360
 ccgacctccg agttagaagt aatgacca 388

<210> 21773
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 21773

aggcttgccct gagctgaatg actcaaccag ttgaaaccgg aagaatttga ttttaaaaat 60
 tgggaagggg ttggggaaac ccccataaca aaaaggggca aggacacctg gaaatagaga 120
 agggcgctccc aaaatagaca tgaaaaagga aaagaaaacg aggataaaag cgcaacaaaa 180
 agggaaagca aaacgattga agggaaaaga aaagggacca catgaaatgg agcagacaag 240
 agacaaaggc actagacgag cacc 264

<210> 21774
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 21774

tggttgcaa gcttggttcg aggtacttac ccgttgaaga tcgaagaacg atgaagaacg 60
 aatgaagaac gtcgaagaac gggtgaaatc tttgcgaaat tcttcacgga aaacgttacg 120
 gaaacgtttc ggaagcgctt cggcttagat tttcttcacg gaaacaattt ttccaagcaa 180
 attcgaaaga gagagaagtg ccaaaggggc tgaacccctt ccttcttcac ttcctccctt 240

atttatagca aaatagggga ggtggttgcc gccagctcg cccaggcgag ctgagctcg 300
 ctaggcgagc caggttgctt cctccagaag caacagcctt ctggaggaat cttctggagg 360
 gccaaagtggg cctgggtgct atttgacccc ccatttctac taagta 406

<210> 21775
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 21775

gcttgaggat tatggggtac ccattacatg tgggtactatg tggcggtcgg gcgatggtgc 60
 acaacaagtt ttccacatcc acaatgcgcg cataaaccaca ccattcccctg ttgcccacct 120
 ccaactgagc tcacgtactc ccacgtagcc catatcctcg tttctctcaa caccgggtcc 180
 ccattcaatcc tcccaagctt ccacaacatc caagcaaac aacattcaca cagcacaagc 240
 tatcacagcc aagcaaaaca aagcaaaggc agaaaactct gccaaaacac caaccaaaaa 300
 tcacagcttt tccactcaa agaccccagt aacaattcct tcgattccaa ttgttaaccg 360
 ttggatcgac tccaaaattt tactggaagt ctatagtga ta 402

<210> 21776
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21776

agcttcggta gaaagtgatg aggtacaagc cctaaaggca gagcttgaaa gagcccgggt 60
 agtcgaagag aagttcaagt ccatagccat caaagtctga aaagagtatg atgaactaag 120
 ggacgtcaat atggccaccg ctgaagcttt ggaacgagaa accaagaagg cctgaaagga 180
 agaacacgac caaagcaaag ttttgagggg ctttatatgg cagaaatagt gagctcaagc 240
 tccgaagagg tgagaggaat catcatgggt caaaggcatg atcttgaagg acgagctaaa 300
 ggcttgctt angtcgaaaa gaaatttgtc ccaacagtta agcgagactg aagggaatat 360
 gtgggccgctc atcgatgagt gcaaagagaa actaaatcta gcggcgactc ac 412

<210> 21777

<211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21777

actcacgctt caatatgttc tcagtttaaa cttgataatg caggaggctt gaatgtgtaa 60
 ngagaagcag acagctggga ccttggagta ggtatgtcac atgagaccaa tatatttggg 120
 ccttaaataa ggctgggtct taattgaacc ctgngcgcga ctttgtgggg ctcggggatg 180
 gggccttagt tttagtcttg cagattgttt gccttatgag gatgttgaat ttcttgaaat 240
 tgtcatttag atatggtata ttagaatcat aatggatgtt ctgttttata ttctaccctt 300
 gtttttgtga ctcaagtggt aaactttcat tntatatact gcttatacac ttagtaatga 360
 aaatttgtgc atatatttgc ttaanaaaat atttgtgcat atagaagtac aattntcatt 420
 acccaattct atatttgtgt aag 443

<210> 21778
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21778

agcttttagtt actacgtgac cacaaaattt tatattgagt gtccacgtgg atatgttcta 60
 cgattggttt tgcataaatt tctaattgtc ataacatatg attcatggat gtgatctggg 120
 cattctttat ttctaagcca ttggccaaac agctgtccca atgtacatta ttttctgcca 180
 tttgcaatcc ttttgagcca aacatttgat ttttaccaga atcctgacct angatgaaag 240
 tttctacct tactctagga taggagagca ggggtgtttt tcaagggaga tttctatcat 300
 cttttggcta gacatggatt tttaaaggga gttaaatatt catcaaaca aaacaaaaga 360
 gaagataaca agaaaggaaa agaaaatcaa tcaaagatgg aaaat 405

<210> 21779
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21779

tgcttgtggg gcttctatgg aggctggatc tttgagtttc aatgatgttc tttaatggng 60
 attttgcacc atggagatgc agcggaagac aaaggagaag aggtgagagg aggcgccatc 120
 cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
 gcttggaaagg atgcttcaat ggaggaaaag aaagagggag agaaagagaa aggggggagc 240
 acgaaattga aggaataaaa aaggagaga agttgaactt tgagttgtgt ctcaagac 300
 tctcattcat caaagttaca acaagtgtta cacatgtttc tatttataga ctacgtagct 360
 tccttgagaa gatttcttga gaaaacttcc ttgagaagct tctt 404

<210> 21780
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 21780
 agcttcttat tttcagataa tgcagttgag tttgtagcta cctcatgcac tcctctaattg 60
 actatagcat catttctggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa 120
 tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
 cttctctcca tatttcggag tccttcataa aaatattgga gaagcagctg ctctgaaatc 240
 tgatggtgag ggcaactggc acatagtttt ttaaactctt cccagtattc atacaggctc 300
 tctccactga gttgtctaata acctgagata tccttcctga tgggtgtggt cctagaagca 360
 gggaaaaaat tttctaagaa tactctctta aggtcatccc agctcgtgat gg 412

<210> 21781
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 21781
 ctggggcccat gataaataaa agtatgtggt agacattttt attaagataa cttgagagag 60
 ttgactgtta gcaaatcaca cgtgatgggt gtgtaactta tgtgtgaact tgtgcaagaa 120
 ttttgttttg atattttgga atggattggt ggaccttag gtcattttg tttgctagtt 180
 catgctgggag aatagagact cacctataca cccaacattt ttcaaataaa cttatagatg 240
 tagttcgttt atcaaagaag aaatggattt cactacatca atcactacca gtgtagatgg 300

acttggtcgt gaaagaaaga cctttcaagg ataccgttag acattggatg acccaaccat 360
 ctttttagagt tttgatgaaa acaaagatat aaatatgtgt taatcaat 408

<210> 21782
 <211> 411
 <212> DNA
 <213> Glycine max
 <400> 21782

agcttatctt ccataaattc ctattttaca tttaacaaca atcaaaattt gactatgggt 60
 caattataca ttttatacgc gtctttatct cacttttaca aattgagctc agatccatta 120
 tgataactat tacataggcc cagaaaaaat ggggatcatt taagaaaaag ggagataaaa 180
 gaaaataata gcaaactcgtg tatggtacct aatagagctt ctctcttcat caaactcttc 240
 ttccatatac aaattattct caaaattatg tcaccaaaaa attcatttcc ttcttttctc 300
 tttcaaatca attttttaaaa gtatataatg taaagaaaaa atgggcactc atttggaana 360
 aagggtgagc aaagaaaata ataacaagga aattcatggt atgaacatgt a 411

<210> 21783
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21783

acttaaccct ggcatttatac aagaaattta ggggtctatta tatttatact gaagacagtt 60
 gcaagtctgt actttgttca catttcaaac tcagtagatc ttcacttcan aagactttgg 120
 ttagagatat aaaactatct ttgtacattt catttatcca gaaatttagg gtaatatatt 180
 actaaagaca gtcgcaagcc agtaggttca tatttcaaac tcagcagatc gtaattnttt 240
 agaagttcac actgagaaaa caaatgaac aaggccgcct aacttaagga tattttcctc 300
 aagataaaat ccatcacatc ttgtaagaac tcagcccaac taggtggaaa tgcaagctca 360
 c 361

<210> 21784
 <211> 392
 <212> DNA

<213> Glycine max

<400> 21784

agcttgcttg tacaatctat ggcttgggtga tgatgacaac gtctgatgtc atgaatcaca 60
cacacacaca cgctgtttga tagtcgagca ctgcgatata tgtccattct cccacttagt 120
ctttgaattt atgctcctct taagagtaag ttgattactc atgtgagtta tggagttaat 180
ccctatatct atcccccttt ggcataca caaaaccaa gtgcatgact agtacgaagc 240
attcaaagac gactaatcat ccacacaaca tgcattggaac aatataaacc aatcatgag 300
gcatgaacca tgaatagatc atatatatag cagccacata tgtaaataac ataattaatt 360
ttggttcaca cataccatgc caataaagaa at 392

<210> 21785

<211> 304

<212> DNA

<213> Glycine max

<400> 21785

tagccctaga ggtgatggac ctgcacaaga tctggagtgg atcaataaca atgcctatag 60
gtcggacctc ccatataagt gtggagtcag cccactctt aacattactg agatacttac 120
ttatgcacgt gtacatgatc tggatgagga ggaactaaca gatttgacgt cccatcctct 180
gccatgagca aggcattgat caatccttcc tatgacggga ccagccacta tagccatgag 240
ccatacgctc caagaggatt gggctagagc acctgatgac agccctaagg atctcatgaa 300
cctc 304

<210> 21786

<211> 406

<212> DNA

<213> Glycine max

<400> 21786

agctttgcag atttggcctt cgccagtgaaggatcaatg tgggtccgaa aagaggcaaa 60
tttgatcatc ctactaggac gactgagaaa actggggcaa ataaagaggg tgaggatgaa 120
ggagaaaccc atgctgtgat tgccattcct gtacggccaa gtttccacc aaaccaaca 180
atgtcattac tcagtcaata acaaacctcc tccttaccba ccaccagtt atccacaaag 240

gccatcccta aatcaaccac aaagcctgtc tatcgcaatt ccaatgacga acaccacctt 300
tagcacaaac cataaacacc aaccaagaag tgaattttgc agcgagaaag cctgtagaat 360
tcaccccaat tccagtatcc tatgctgact tgctcccata tctact 406

<210> 21787
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21787

ntgagccaaa atcctgactc accatatatc tcttgacctt tgtgagaatg ccaatcctta 60
ccctcggaag caaaaaaagg aaagaaggaa aggaaatttc caatcaaaga gaaagcaaaa 120
aaggaaggaa aggaaattcc caatcaaaga gaaagcaaaa aaggaaggaa aggaaattcc 180
caatcaaaga gtgggagaaa gagaaaaaag aaaagaaagg aaattcccaa tcaaagagtg 240
ggagaaagaa aaaagaaaag aaagaaaatt cccaaccaa gaatgggaga aagtaaaaaa 300
gaaggaagct cctgggtcaa gaaaccagaa gaaatgtgcc gagaggctct tggaccagac 360
gatatctgaa caatacagaa ttgtcaccaa atgaacaaaa gaa 403

<210> 21788
<211> 124
<212> DNA
<213> Glycine max

<400> 21788

gataaaggcc tgcattgggtc ctgcaagcaa aaggacatat cctaactgtg atcatctctc 60
ttaagactca gaccatgtgc actgggagct gggataagac tcacaaggag ggctgtgtgag 120
cctg 124

<210> 21789
<211> 265
<212> DNA
<213> Glycine max

<400> 21789

gactatcacc ttgaggacca tgtgatttcc caacggccgc ggaagatag ggactacacc 60
atatgacatt aattagacgc acataagaga tcattcagca taggtgcata atatggaaaa 120

gccccaaacg agagtaatga ggccagctta ccttccagac tatgcgtaag gagagaaaat 180
 ggattagagg gatactgccg atataacatg ggacaagctt aacgggtattg attctgtgat 240
 attcctgttg caccacatag ataataat 265

<210> 21790
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 21790

tagctttctca aagtataaac ctttgcagta tagttagcaa gtttttcacc tagatgataa 60
 gaaactacct agatgaaaact ctctttacat aaccagctaa ctgagatcac aaatagatca 120
 agaagaatga gatagaagaa tgaagatgat gagagagatc tagaaatcta gattgaggga 180
 taaactttct ttggaagaga gtggttgaag aggaagatgt gaatgatttc ctttgaccaa 240
 taaagaatat tccaaagggtg tggttttggt agattttatg atcatgctct tggatttgag 300
 gtgaacaagt ggttcaagtt gcttgctggc tttttgttga gagtgatgct ggaccgattt 360
 gagacgcgta cctccgtagg gtgccatcac atggaaagta aataaaa 407

<210> 21791
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21791

ttataagaac aaaattgcct taatcatttt caaatatggt tgtgaattan gacgcatcaa 60
 caagaatcaa gccaaaggcta ttgtgcaagc aatcaatggg gcaaaacaca ccaaatgatt 120
 ataatgatgg atggctcaaa ttctcacaaa ggtaaaatca tcactttcaa attgagcttt 180
 caaaactatc atgacatgta gagaagaatc aaggatttca agtcacaaaa tgtcaagaac 240
 ttttattttc aaaacaatta cccatttctt gaacatatcc tataattcan agaaaaacat 300
 gcaaagtcgt acgtgcacac gaaaaatgac ccaaatatta aactgaaaat cgcacgaaac 360
 taacaacatt aacaaattaa cacaactaac aaattacaaa accaacaaaa ct 412

<210> 21792

<211> 393
 <212> DNA
 <213> Glycine max

<400> 21792

tatcttgaac cataaccggt gagagtgtga tcttaaacgg tgagtgaacg actagctttg 60
 agtaatagtc tttgcatcaa tctctgaaat ttagaatgga atgtatgaat gaggacatga 120
 tgaaggccat aatttgttat atacaagcca agtgaccaa aagcttacct tgaatgataa 180
 ttgtatcctt tgcacccttt gtgagctgaa tgacattttc aaaattgaac cctgaacata 240
 aatgattatc tccagatagc ttgttttagat tctagcagag cagatagctc aaggaaaatt 300
 accccaaatt tgggggagtt gattgggatg taaagtaaaa ggtaaagcat cggcacacat 360
 aacatataag ttgtgtgtta aaaaaaagag gag 393

<210> 21793
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 21793

tccatcacat tgataccttc ctaaagaggt ataacatgta aacttagaag tgactatttg 60
 ccaataggaa ttggagtcac tctaaatatg gaggattttc gtaaaactca tgaagtgaga 120
 gagtacataa ctagagtatc atatgctagc atagtaggag ctattgtata tgacacgatt 180
 ttcacatgtt ctaatatcat ttatgcacta ggtgtaacaa gttgatatca agaaagtctt 240
 ggaggagggc attgaaagtg ggtaagacta ttcttaatac ttaagaagaa ctaaagacta 300
 tgccctcattt atggagacac aaaattaaaa actaaaagta gtttgatgag cataagttgg 360
 aattagtaat ggaatacatg agtgatgggc tctagcgcaa gtggaag 407

<210> 21794
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 21794

ttgctttttt caactttcta tcacctggct tcacccatgt tggaaaccct tctttgtaac 60
 ttggttcttg gtatggaacc ttgttaaggg ccaaggtgta gctcagcaac ttagtaacat 120

tggttgacat caaagggaga acgtagtctt gaacaccaag ctcatacaac ccggttttgc 180
atgtctcaag gttagtgaga gctgcgctga gccatgtttg ggcattcaact tgtgagagct 240
tgggtgttatg ctttatgggtt tggctgagat tgcgaatagt ttgctcataa agctcaacac 300
aatcagccca tgcaactctt tac 323

<210> 21795
<211> 391
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21795

ttatatcaac gcaagngaatt nttgntcccc ttacatatat tcaagggggtt cacctctcaa 60
aaaaataaaa atattcaagg ggttcaagac ccattacatc ttgataactt ctaattaaca 120
aagcccattg acacaagctt ctcttataag aattagggtta tattttaagt catctgcaaa 180
ctcatccaat acacaatatt ttataattta taattatittt aacagttaat tatgagtaat 240
aattctttta agttaatata ttttgcataa tgcaccctct tgctttgata gctgaccttg 300
aactttcagt ctagccttat cctcttaagg acagtattct catttaggcc atctgtatta 360
tgagccactt aagtcatata cgctcgggt a 391

<210> 21796
<211> 387
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21796

gaagaggnat gatgctcatg acgcctgaga cccggcattn gaaccgccag gggacctcag 60
ancaactttg ttgcagctat ataaccagcg gccttgaggg gctacaacca tagatgacag 120
ccaccctgag gcctaccaa gagatgaatg gagaggtagt gtagaaacag gcgtgagccc 180
atgcgggggac acacacctag ctatcgccct agataccctg agactaaata taaccacta 240
cagcaaacgg cttgtgaaat atcccagacc cagttacgaa gcttctgatg gacaacaacc 300
cagagaacaa tggaaccag ctaggttgtc atgaccagaa cgggacgtgc ggcaaacat 360
ctaggtccta acaggagaaa agccgct 387

<210> 21797
 <211> 296
 <212> DNA
 <213> Glycine max

<400> 21797

ccatagctga actgactgaa ctgaaacccc aagatatatcg cgaagaatac tcttttagaa 60
 cctttggagc gaggagtcca ccagagcaac caagccgtca cacaagcaa cgcaaacagg 120
 ggaaaaaatt agcggccagg ggcacgggaa agcaaacagc atatgagcta ggaatggaga 180
 gaccaaagga cactaacaga cagccgggaa gcaaaccttg gggaggagct tcacaaaaga 240
 caaatgccca agaaagcgcg aaaaggcgct agcgaactat gacaaatggc aaggag 296

<210> 21798
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 21798

agctttggcc agaggtaaac ctttcatcag gtcttcttat ggaattaaag tcccccaaaa 60
 tacaccacaa ccccccaacc attgactgtc tcaaagtctt tactgtatcc cacaggattc 120
 ttttactatt tatatcacat ggtgagtaaa tagtaacaat tgtgactatt tgtgcttctt 180
 ggaccatttc cccaaccatt aaaataaagc cagtaccact gattttcttc tgcaatctaa 240
 aagaattatc accccacaaa caaagaatgc cacctgctga atttatagct ggcagcattt 300
 cccaatttat ctctacatgt ccccataaag cctgacacat ggctttgtcc accaactcta 360
 tctttgtctc ttgaagacaa atcatgtcca caccc 395

<210> 21799
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 21799

tcacttggtt caggcctaata gtgtttcgtc aagagcagac ttgacagatt cctagtgtca 60
 gatcaatggc tagtcatatg gcctgacaca tcccaacatg ttcttcacag agattactct 120
 gaccattgcc cggtaatgtt gaaaactaaa ctggttgatt ggggtcctaa gcccttagg 180

gtgctggact tatggctcaa tcaaaaagga tatcaaaagc tgggtgcaaga gtcttgggtct 240
aaggaccagc aggggtggatg gnggggcatt gtccttaaaa acaagctgag aaatcttaaa 300
aataccatca aacaatggag taaagcta atgctaataag aatccagaag 360
ttgagacaga agcttaatga cttggaaact acagct 396

<210> 21800
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21800

agcttgcata atagactccc tccacaaatt gtttgaaaag agaccgttta gagaataagt 60
ttgtaaaaaat aaccctacct ggtcattttg ccaaaaaaaaaa acttttatca acaatatatt 120
tgtgattcag tggaaagcaa gatctaaggt tgtatatatc cttaaactcat tgttgatgata 180
atattgatgt taatattcat tttgatttca cttactatta gcattcttca ttgaagaagt 240
atgcttatac acgaatgaat ttggagcata tacaatcaa atgatcgaac tatacacaaa 300
tgaatttggg atgtcactcg gtttcttgaa acatgtgcag gagcgctcgtg aaaaacattc 360
tggcatcttg tgcatgcact tcttccttcc aatntgccaa cgatcaacaa a 411

<210> 21801
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21801

cgggtcggaa ctgctctgcc gacgctggag agaggttctt cgctgctcat cactacctcc 60
ggcagaggag agaccttggc gccgatgagg attaaactacg ttaggggttaa ggtcgcggat 120
gtgattcgca acgtgaagat cgtgggtgcat agtgtgtatt tgccggttcc acatattaat 180
cctgtggctg cggcttatga cagtatctta ngcgggtgtg aaggagcgtc ggaaggagcg 240
gggaatattg cagattctgc agatcagacg acgcaaggga cgtgttctgt cgttgacggg 300
cgtggaagtt gcgtcttgcc tacgatgcct gatcaggttc aggtcaagcc aatgggtggag 360
atcgaagacc accatggcct gtgaataatg ccatatattc atccacgatt atcttttctg 420

aagtgaaact t

431

<210> 21802
<211> 409
<212> DNA
<213> Glycine max

<400> 21802

agcttcccat atatggagag ctaaatcctc tattggttct tccttatagg tacttgatgt 60
aaatacctat atatctatct aatgatgttt tatgtgttct ctgtgctatc agtacatcat 120
ttcagtgtgc ttttgccctg atcacgtaga tgcattgctt gttaggatca ttcaacagtt 180
gaaactgggc tgattccttag aatttgatag gatagggcta gtttatcgta ttatcacgag 240
ggatcagggt atggtaacct agttgtttgt atgtttgtct taatgcagtt ctagtcgagt 300
ttagtccaac aagaggaatt tgaggataat gcttgatcag gattaggcta gactatcacg 360
agggatcgag gtttagcatt ttaggagaca ccatagaaca catgagcat 409

<210> 21803
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21803

tcattcttgt acaaagatgt tgttaaattt gtccttttct cctcctttat cctcccaagc 60
caaccctaatt ctatcacatg atcttctaac actgttaaaa tcacttatca cacaccatac 120
ttttgtatta cttgtcttat ttctcctcct aagctcccc cacactcttc ttttttgtcc 180
attgccgaaa ggaatataga cattgccaat ggtaatagcc accccattct ctttccaaca 240
tcccttaaaa gcaatgcatt cttgtcccat aagtgatatg aaatttccaa gaaggccgga 300
ccccataaac acaagagagc tattgcttaa tttaaagccg gagaagccaa actatgttta 360
agcataaaac tgaaccctt ccttcgtcac tatgtttcag atagatntcc acttcacct 420
acta 424

<210> 21804
<211> 409
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21804

agcttcctct accggtgata aaacattgtc ggccagcgct tgtaaaaaaa ttgcgcaatg 60
tcgggtgaaa aacatcagtt ggggctgttt aactaccgat gctggctact gttttttcta 120
ttccaccctt gaataatact tggacgatgt cgatttgga atgttcgac ggagtcaccc 180
ggcatgctt ctttttaaga cctcgatctg tcatcttttc ctggccgacg tcggctagca 240
tttttttcga tcaatatcgg tgaatcatgc tttttgccaa ggtgggctaa cgttttcgtg 300
gctcatgaaa tgagagcatg ccagtgtcgg ccganacaca atctcgacg aaaaacccta 360
gccgacctac attgtaattt ttgtaggcaa taccgaacag caaaacttc 409

<210> 21805

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21805

ntgcagcaga atttagtaat gaccactaa cctagaatta aaataattta ttgccattaa 60
cctagggaat taaaaaaaac ttaatggctg agtgtaactg aaattgtggc aacaaaaaat 120
caccaccaac agccaacaag tcagccacca tttggctctc caaaaggctg atgcctaggt 180
tgccaattgg gcccttatta caacttgaac taaacctaac taaagccctt ttagttgatt 240
aaccctaaac atatttttgg tcagccaact ttacaaggat tggggcatta ttagacaaa 300
cactctaaaa ttgagacaag gtggtgtcat ttagtcctcc tccatttggg ccatgatata 360
actcacaacc ttggactntt ctcttgaaa cttgggcttg tattcaaata gtatggacaa 420
cacttggt 428

<210> 21806

<211> 412

<212> DNA

<213> Glycine max

<400> 21806

agcttgatg attatgggt acccatcaca tgtggtacta ggtggcggtc gggcaatggt 60

gcacaacaag ttttccacat ccacaaatcg cgcataaacc caccatcccc tgttgccac 120
ctccaactga gctcacgtac tcccacgtag cccatatacct cgtttctctc aacaccgggt 180
ccccatcaat cctcccaatc tttccccaac atccaagtaa ctcaacattc aaacaacaca 240
aaccatcaca gccaagaaaa cagggcaaag gcagaaaatt ctgccccaaa caccaaccaa 300
aatcacagct tttctcactt aaaggcccca gtaacaattc cttcgttcca attctttaac 360
cgttggatcg actccaaact tttactggaa gtctctagta cataagccta ca 412

<210> 21807
<211> 425
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21807

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aaggtctgag agaccatata agtttcttaa cgatttctaa ttatgtgggc cattaagtct 120
atcatatgct gacaatagcc gagaagccca tgaatctctt cgggggcgga gtaagtgtcc 180
gccactgctt tggccttggc tagcaatcgg ggaagttctt gactcctgtt caaagtaaga 240
gcaaatcggg cgtccacat tgttgctctt tgggtgcatg aatcaattac cctctccctt 300
gcttcgcttt ctgctgatat cttggcgtag tcattcctta gcctttgctc gtgagtcgcc 360
gctagatata gcttctcttt gcaatcatcg atgacggccc acatattccc ttcagtctcg 420
cttaa 425

<210> 21808
<211> 387
<212> DNA
<213> Glycine max
<400> 21808

tagcttgcta cattgccatt tctgtaagtt ggtatctgtc tttatttcgc acatgcttat 60
gtgtgtatgt gaatgatcaa acatttttac tttatgtatc agcatcatgc ataattctta 120
tttacatggg tatttcattt tagttaacat ggctaattggc taagatagca tattactaat 180
taagaattac aggggtgtta aaaaaaactc ttggctaaat gagacagttt tgttgtcatc 240
atgacttcta ttatctttca tatcagaggg ctttttttaa tgggtataaaa cagtgtctat 300

tgcttaacat agagattctt attggaacca gggtgcaagt gttttgaaca ttttggatga 360
 tgagttgatc aagaatgttg gagacta 387

<210> 21809
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21809

tgttagaatt gttgggtcaat accatcattt acgcttttat taaccaatga catacttaca 60
 aagaagtgaa agaactatag ctagttcaga gatggtgaag atcgaactaa acaagttttg 120
 attaacagtg gctgtttttg ttttaatagt attagagata tagattagtt cagttaatta 180
 caagttaatt attaagtttag ttaattagtt acaaattagt tatttttgta accaattatg 240
 taacattact agcattagtt atataaggat gaatgtattc atataaaaac tgatttactc 300
 attntagca ttatccaaat taatattcan gttttctttt ctcttttcat ctttctatct 360
 taactttatc aaatagtgat tggaacacat gc 392

<210> 21810
 <211> 406
 <212> DNA
 <213> Glycine max
 <400> 21810

agcttatcta aacctagaat tagctaattc aaaagatatt gttaaagtga aataggtatt 60
 gtatattatt aaactatctg tagcattgca tccattaatt ttttaattgta caaaaaataa 120
 gatgaaaaga ttataaaaata gaaaaagaaa ttgctttgta tttgttttaa attattaaaa 180
 aaatagaact attttttcgt acaagtttga aagcaaagaa gaggtattcc ccacagtact 240
 cacaattgaa gtggctgcat tctaataatt tcatacagat gttccttaaa tattgtgtat 300
 catttatagg aatcttcacc actcatatgt tatttatgga cttataaatt aacataatag 360
 agttaatgga ctatgtctaa caaacttttg ttcagagact aaaatc 406

<210> 21811
 <211> 343
 <212> DNA

<213> Glycine max

<400> 21811

tagggattac ggatacttta ctaagtatga tctactatta tttgacaact taatgttttag 60
ggtttagggg tatttgacaa atgacgattt ttatgtagtt tagcacttag ggtttagttt 120
tacctgacta attcgggtta aaggttattt gacctattaa ggtcacttgc ctaattacgg 180
attaggtata ttcgaaaaat taaggttact tgactaatta tgatttatat gtgtctaact 240
gattaaggat atgaatacat gactgagtag ggtttatatg tacttgacca actatgggtg 300
agggttatat tacctatttg tttacagata catgactaat tat 343

<210> 21812

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21812

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agtggatgac gcctcctttc acctcttctc ctttgtcttc cactgcatct ccatgggtgga 120
aaatcaccat taaaggacct aattgaagct caaagatcca gcctccatag aagccccaca 180
agcaagcttc catcaagtgg taatcagagc acaagagctt caagtaggtg cttcttaaac 240
ctccattaat tttttgcttt accttctctt ccattgttgt ttcttcattt ttctccatgt 300
atctctcac atttcttgct ctaaagtgtg ttaacatgat tctttagagt ttccaccgat 360
taaacttgct ataaaagcta gatntgattt tctatg 396

<210> 21813

<211> 403

<212> DNA

<213> Glycine max

<400> 21813

tagctacaca cacctctcta atagctaagt tcacctcttt gagatgagaa gctagagctt 60
agctacacac cccctataat agctaagctc acccccatga gaaaaaacat gaaaatacaa 120
aaaaaaaaagt cgttactaca aagactactc aaaatgcccc gaaatacaag gctaaaaccc 180
tatactacta gaatttccaa aatacaaggc ccaaacgaag aaaaaaccta ttctaattatt 240

tacaaagaag agtggatcca accttgaacc atggactcaa aaatctaccc taaggttcat 300
gagaacccta gggccttctt tagtagctct agcccaagcc tcttggagtc ttctatctaa 360
tacccttgg gggtaggatt gcatcatccc ctccacctgg aaa 403

<210> 21814
<211> 408
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21814

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ttgcaaaana ttggggcaaa agatggatcg tgtgacatcg ctccttcgtc tacggccaaa 120
cacatttagg gctgttgata tccctgttac ttccagtttc accttgacgg agatgtcatg 180
gaccatgttg aaaatctaaa ttgattcaac cccatatact gtgtaaaaat tcacaatact 240
tcaattgtgc atcattcgca tacatccatg ttgttcattg gttgcattgc tcattgcatt 300
ctttccttga aaagaaaaag agaacctaat cattgttata aanaagaaaa aaaaaggcat 360
gctttacggt gccctcaccg aacctatgct agagctagag taatgggt 408

<210> 21815
<211> 379
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21815

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gttggacctc ccagaagagt atggagtcag catcactttt aacatttctg attcaattcc 120
ttttgtaggt ggagctgata ttgaggagga agaactaaca gatttgaggt caaatcctct 180
tcaaggggaa agggatgatg caatcctcct taggaaggga ccattcacta gaaccatgag 240
caagaggctc caaaaagatt gggctaaagc tgctgaagaa agccctangg ttctcatgaa 300
cctcaaggta gaattttgag cccatgggcc aagggtgggt ccaattatct tttgacatat 360
tagactanga tgtcattat 379

<210> 21816
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 21816

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 acagtagctt tttgtgcatg cttttgcttc atcaccatcg acttgcccgt aaattatttt 120
 ataatgcgtg tttaacatta ttgcttcatg attgtttcct tttcttttgt gtgtgcagaa 180
 aatatacatg tacttccggg ggcataagtg agactgttct cttctggatt ttgatccgac 240
 ggcttttata atgtcaatca cttcacaatg tggcttagca tattcttttt gtctatcctc 300
 attttctcat acaatatctt ggtgtgatat tggctctgtt cttttagtatt accagggttt 360
 agtttgtatc aggggttacg ttgtttgtac catactgtgt aatgaattct 410

<210> 21817
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21817

actcagctta accccttctt ctctatctc aaaatttgtg aggctattct tcaaagcaat 60
 tatgataata atgtccatt cccacttgtc gtcataatgg ttgtcctgtg ttattttgca 120
 aattaaagta ttattatatt tttaaaaaga ataaaatgtc gagaaattag atcatattat 180
 gtatgttaca aagttacgta agtgaatatt atatgatcaa tgatattggg ttcaccttcc 240
 atggaactca gaaactgttg tgctgaaatt gaagatttgt gcaactcttt accaatcagt 300
 ttctcccaca ttgcacaac ctctctctgg gataatatgt ttccaggtgg ccttatgtaa 360
 actgtcttgt tccgtgttct ngggtcatct atggttttga tagtggacat agctatatca 420
 tcttcat 427

<210> 21818
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21818

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acctcggggc attccatgac ttgccagttt cccagctgga aacctcggga cancccttga 120
gggggattcn atcgtgcacc acagtcactt cctcttcgaa cctaaagctt gcgctaacaa 180
agctctcgat gaggtgacag ggaggggcct ccttcacatg tgcccttagc tgtggggccag 240
tgccccgatt tctcttttcc tagctgtttt tccttatgtt ggcttgcgta ggcttatatc 300
ctaaaccaa cctttcggag ttctctttga catccaccaa gtcggacctg ccgtcattgt 360
tc 362

<210> 21819
<211> 348
<212> DNA
<213> Glycine max

<400> 21819
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agcatatgca aagtggccag gaaactcttc aacttagaac aaatcgcttt gcaactgttga 120
tcctaataa attcggtttg ctgtttcagc agttggaaaa atgatttcgc cttcttggcc 180
attctcagta gaaatcaaga tagagccacc agtctatcga tcaacttcta tacttccttc 240
atgttttgtg ggctgcacat ggcagttcct acttcgtact tgtttggggt ggccctcgatc 300
ccctgcagg tgattcatga accaaggaac ttacccctc caaccctg 348

<210> 21820
<211> 401
<212> DNA
<213> Glycine max

<400> 21820
agctttctcat ttgatccagc agaggagaag catacaacct atttcactca agtcacaccc 60
acggaactct agcacaagag acttggtcat cgtcatcttg aaagaatgct aaacatgaaa 120
aaaatgaaat atgcaaaaaga aaatttgaag aagtttcaaa cggaggaatg caaatctgtt 180
agtacacaaa tgaatcaaaa ggagaagttc agcaaggaag aaggcgttga taacattgat 240
gaaggatatt atgggaactt gattggatgt ctaatgtatc tcactacaac gagaccaaac 300
attctatttt ctcaaaagaa caaaactgga atttttgtga caatcaagta gtcattgcta 360

ttgcaaacaa tcccgtgtgt catggaaaga ctaaacattt c

401

<210> 21821

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21821

tcaccctcgt tgtaaggcaa cgacaaaggg atctcatata gtttcaggca agcttgccaa 60

gcggttctat ggacccttcc aagtcataga atgcattggg ctggttgcac ataagttaca 120

attgccagag gaagttaaaa tacaccccggt attccactgt tccaagatga agtcttttcg 180

cgggttcaccg aanaatatgg cgggaattac ctggcacaag gagttactca acgaccaacc 240

cctcgtgttt ccattagcta tcttggatta ccgtagagca tccaccgagg atccctgnga 300

ggtgttcatg caatggaatg gtatctcacc tgatgatacc tcgtgggaag actggaatca 360

gctgtgtgaa aactaccacc ttg 383

<210> 21822

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21822

agcttgcttc tacagcttgn ggattggatg taggcacggg ttgttgccga accagtataa 60

aattcttctg tttgtcttct tcttccctac actctttatt ttccgctgtg cacttttaat 120

tatcgttttt acttttggtt aagtttcaat tactgttctt tactttctta acttagtagt 180

aaaagcctaa ttaaacttag taacattaaa aaggataagt tttaattatt caaggtaaa 240

taataattaa ttcaaccccc ccttcttaat tattctgagg ccacttgatc caacacctct 300

ggcatcaact gaagtttcta ctctatcgt tgctgcagat gttgtccgtc ctactgatga 360

tgttgtatta cttctgctcc tccacctcct tctactatgc ct 402

<210> 21823

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 21823

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 tcttaagaca gcaatgtaaa gatgtagggt atgataatag caaggcaaatt tgaaatagaa 120
 tatgtatatt gttattttcat tgatcctttg catgatatat ataatacatg tacaagaatg 180
 ttctatacca attctaaggc atgacagacg tgatccataa tcagtggcat ctgatttatt 240
 ctatgcatta taaggtaaat aaatatagaa tcaaggtaac ataggaaagt aaatatatac 300
 acagcatatt tgcaatcatg tagaagatat ttccctaatac tccccctcaa gttggtgagt 360
 gaatatcgtg aagtcccaac ttgttgcgca atgtcacaaa ttgatctntt tccaaagctt 420
 ttgtaaacac 430

<210> 21824
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21824

agcttgntat tttaaaaaaa ccaaaaagca attatagtta atttgtcaaa atgagagtag 60
 ttttcttttc aaacacagag ctatataatt acagctgatg aatagaagtt caatagacat 120
 gcttaatttg gcaacctcag caagtgattt tattctcctt ttggaaacat actatatgat 180
 ggtttatagg tcaaatgagt tatttgatct ttcattttat ttgttagggt tattttgatt 240
 ttttatcttt taaaaaatc attttaatct tttatatatt tatttaaatt gatttaaaat 300
 gatcttttca tctatataaa attgatgacg ctaatgaaat aaaaatatta ataactaaaa 360
 attatcacia aatgtaattt tcttctttat cttgtgcttg gtgtg 405

<210> 21825
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 21825

tcttcgggtt tcctcctcta tgcaactcgc agatatcttc accaatgttt tatctccttc 60
 tatttttcaa cacctttgta ccaagctggg aatgatgaat atccattccc agcttgaggg 120

ggggatctta acagcatctt gttagagtta gttatgatag ttatttctgt tgtaaccact 180
 ctctgcttg tacatatata agccctcacg tgcatttaaat aagatgagtt gcagttttga 240
 tcatcaagag ccaagcgtag cttttcactg caccacctga tatttttctt ctcaaaaaca 300
 tgagtttcac gtttttcttc cagcttagtt caatatgtgt tttcaacagt aagtttagcat 360
 caacaaatat ataaaatgct tggcagagtg tacattacta tactacctac gtgcttatct 420
 att 423

<210> 21826
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 21826
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 aaatcaaaaag atcctagcca gacgtatatg cttccccatt acatcaacca actggtgggg 120
 caggactaca ttaaatatct catagccttg ggaaaaagga aactgtccat cagctcacc 180
 tttttagcaa tttcagctaa cttgtcctat gatcctatcc aattctcgta tacaagatt 240
 gatcaagctt atatttctgg attttatttc ttcatttcaa tgccaatca gtgtaacaga 300
 ccttaccaca aacattctag gtgtcccata tttgtaaaaa aaaaaataaa aaaaaaaaaa 360
 cttegtaccc ca 372

<210> 21827
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21827

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 gctcttgccc agcaatacgg tggctctgct gtcacaata ctgtatgaca ttttggggga 120
 atctaaatnt atgtaatctg ccgacaaata tctaactgct tatttgcatc ttcttctgca 180
 gctgttgtga tatatgtaac atatattttg gtgaatgaca ggtgtttcca gagaggcatg 240
 gaaagtggaa agcaacaaca caatccagag agttttttaa atccataaaa cgatactata 300

gcaatgctta cacagatggg gaanaacaag atgcaatana cttgtattat tccttccacc 360
tcatttatct caata 375

<210> 21828
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21828

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gccaattcct ctttcaagga cacattgtca tccctctgat ctatatgctc caatgctcct 120
ctatccacaa aatttaccat tctgtgaggg acaaaagcct taagtaaaat gagttgcttc 180
ttaattaaaa ctctattct tctcgtagtg cttcttctgg ggaaagtact ccagacttat 240
ctatacatgt ggcatgacaa gtaccaatga tcaatgagag taagttattc caagattttt 300
tcaccagttg aaaaaagatt aaataccaca gttccaacca aatacaaccc aactgaaacc 360
ttgaaaacat catcccagga gctgaanat agtc 394

<210> 21829
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21829

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aaaagtgcga gaaaacgagt tttgttttct gcatttcttg gaaaacgtga tgaactcgct 120
aaccgagaat actgcgctaa gcgagttcat caatactcat tgtatataag atttatctga 180
agaaccagct aagcacactt attgcgctaa gcgagttcat cctttgagaa tgaacattca 240
tcctcttgct gaactacctg tggctaagcg aggctaaatc gctaagccta ggtaacttaa 300
ccattntttt tttgtgatag ccacgcgcta agctgagcat tcttgagcca agcacagggt 360
gtggcatccg ctgtgagttc ac 382

<210> 21830
<211> 397
<212> DNA

<213> Glycine max

<400> 21830

agcttggttct aaattttacat tgatgtttgt atgggaggag gttacatgcc atttttgctt 60
taagagtaat gtccactaa aactaacttt ccaaagtgtt gccttcgcag gaatggcacc 120
gaggaagctt gcctcaaaga ggtccaggaa agacaaggcg gccgaaggaa ctagttccgc 180
cccggagtac gacagtcacc gctttaggag cgttgtagac cagcagcgtt tcgaagccat 240
caagggatgg tcgtttctcc gagagcgacg cgtccagctc agggaggacg agtatactga 300
tttccaggag gaaatagggc gccggcgggtg ggcaccactg gttactccca tggccaagtt 360
tgatccagaa atagtccctg agttttacgc caatgct 397

<210> 21831

<211> 236

<212> DNA

<213> Glycine max

<400> 21831

atatcacctt cttaattgta cacatggagc actgcgcccc caaatgcgcg agttagaaaa 60
gaaaatattt cgggctctcg tgtccgtata atgcattcat atcatgcac gcataagcat 120
ctcttcataa catcataatg gacatatact gcatttgctc gttatatatt tcagcctcac 180
cttttgcatt agtcatggca tcatcatgca tatgcgttca acaaactctt tgatct 236

<210> 21832

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21832

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atttaacaac tttggatgga gaaaacctac taaaatgatc aatcagattn ttggatggaa 120
aatagctgaa taaacttcaa caaaattgat taatacttta cacttttaat aagaaaaaaa 180
taattgtaca actatgtgat ttaaaatgaa gataagcatc tgtatacctt tcacaatttg 240
gtttatatat tttgttcgca caacttgcatt gaattacatt aacaaaaagt taacagacaa 300
ttaattaatt tattattata cattaaatga gtttttattt tgaaaaacac aataatttct 360

ttacattcctt tatttatatt ttttgcacgc acatctcttc tttattttt

409

<210> 21833
<211> 398
<212> DNA
<213> Glycine max

<400> 21833

ctccgctata ccttctagtg atcttgagcg cttttgcatt ttctctagaa gctatcggac 60
ttgttacttt cctgtatat gatgagagat tgcttaagaa ctgttctatt tgctgtgatg 120
acaagccagt gccattatg attaccttaa aatgttctca cacattcttg tcacattgct 180
tgagggccta tgctgatggg aaagtacaat cttgtcaagt cctataaga tgccctcaac 240
caggatgcaa gtattgcaca tctgtaactg agtgcaagtc tttctctcca ttcacctcct 300
ttgaatctct ggagaaatcc ctgtctgaag cgaatatatg ctgtccacat agaatttatt 360
tgccatatcc aaatcgctct ggtctccttg atcctcat 398

<210> 21834
<211> 387
<212> DNA
<213> Glycine max

<400> 21834

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ggagtcttct caccatcata tatggtttca attggataaa gccaaattca caagagaaaa 120
gttgaggctg ataaggataa aagctacatc tttgatattg agactgtcgc aacgtgccct 180
tcgcaggcga gcgagggcga ggctcacggg tgcgctttcc aaaggaggaa agatgcgcgg 240
agtcgccacc aacgtttatt cgtggaaaac gtcgggaaaa ccgaacgaaa gcgggtcaaaa 300
tgaaaattct aagtccggga gttgtattta cgctcgagga aggtattatc acctctcacg 360
tttgtctcag aggacaacag cctattt 387

<210> 21835
<211> 419
<212> DNA
<213> Glycine max

<400> 21835

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 ggtatctgag aatcacttaa aattagttag aaaaattggt tccatgaaga aaatccaagc 120
 cgaggcgctt ccgtaacgct tccgagacgt ttccgtgggt gatttcgcga agatttcaac 180
 cgttcttcgc cgttctttgt ttgttcttcg tcgttcttcg gtcttcaacc ggtaagttcc 240
 caaaatcgaa cttttcaatc cattctatgt acccttagtg gtccccactt gtttcgcatg 300
 cttttatatt catttcattt actttccgta ccccttttg atgtgcttca gtcatttatt 360
 taagtcattt tctcgcttaa tccaaaataa gataaatttc caccgatcat tcgtattat 419

<210> 21836
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21836

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 cttatagcct aaaccatact tcccacgatt tcctttggca tttatcaggc tagttatgnc 120
 cgccgttgct tttgccc aaa cccattccgg gttcgtaacc gttccccaac ataactcggg 180
 ccatcattac tgctgcatcg gacaggcaag cttgccaga gaaggagtcc acggaggaaa 240
 tgcttaccac ctcaaaagac tggaaaaagg tctctaata ctctctacg gcttcgacat 300
 aaggcataga ggatgggcag ctaccaaga tgtcctctc gcctgatacg ataaccagat 360
 gcccttcac tacgaatntc aacttttggg ggagtg 396

<210> 21837
 <211> 353
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21837

tgactcacac caaacatgac aaggatgatca tgctntttca aataccttca caaataactt 60
 ccataaggca taaacctagt aaaactaccc atcatatctc ccaaacatcc aatacccacg 120
 aaattatgtg agaaagaagt ctacccaaac ctggaatttg aagtcccaca acgtagatat 180
 gcgcttcccg actccgaaaa tggcttcctt tcacgatttg gagcagaaat ggtgtgcaaa 240

ggttggagct ttgatggagc ttcaatgggtg aggaaaaaga agagaatagc aacgtgaggg 300
agagaggggag aaaagcttct gaacttttgg gctgagtgag gagagagaaa cat 353

<210> 21838
<211> 407
<212> DNA
<213> Glycine max

<400> 21838

tctgcttcat gatgatgaat caagttgatt caagtagttt tgatgatgac aaagatgatg 60
acaaaaagcc caagataatg atttcaagat tgagtcaaca agttcaagat caagattaat 120
ttcaagtttc atgagaagaa atcaagaaga ttcaagaatc aagagaagtt gatttcaaga 180
ttcaagagaa gatgaattca agattcaaga gaagaaatca agaagacttc acaagggaag 240
tattgaaaag atttttcaaa aaacaaacat agcacaattt tgtttttcag aagagttttt 300
ctcaaaattt tccaagttac cagagttttt tttactctct ggtaatcgat taccaattac 360
ttgtaatcga taccagtggc aaagtttaat ttcaaagctt ctaactg 407

<210> 21839
<211> 380
<212> DNA
<213> Glycine max

<400> 21839

tgttgtgcac catcgcccga ccgccactta gtaccacttg tgatgggtac cttataatcc 60
tacaagcttg agatgaggaa gtgttgaagg gtgaaacttc ctgcttttat tgttgaccac 120
agagtgggtac ctggagatat gtcgcagggg tcaggagacc ttggggacgt caggtggggg 180
gctattgccc aaaaccaagc ttgaccaatc ccgaccaac ccgggcatag tcggtcagtg 240
agaacctgtg atgtacctaa gcaggcgagc tcctggcagt caacagataa aaggaaaaca 300
agaccacaaa gcaaggaggc ttgtggtggc tggccagctg tgaattttgt gtaatatgtg 360
gattgtggcc tctggtaatc 380

<210> 21840
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 21840

aaacaatgga tttgtcttca acttcaaadc ctagagggtg caccatgtaa actatttcat 60
 ctaanaggcc attgaggaaa gcattattca catccaactg aaataactct caattattag 120
 taagggcaag agtaatgata agcctaatag tgatagggtt aacaacaaga gaaaacgtct 180
 catgaaagtc aaaaccatgg acttggtgaa agcctttggc cactaatcga gttttgtact 240
 tgttgatgga cccattcgca ttttctttta ttcgaaaaac ccatttacac cctactgcct 300
 ttctattgga gggcaaggga actaaatccc aggtgtgatt ctttagtaag gcagcatatt 360
 caagtntcat agcagaaagc caatttgaat cagtgagagc ctggttag 407

<210> 21841
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 21841
 ctttttaaat atacttgccc ttcatttaac tggctttggg cttggcggcc acgctcaaca 60
 aagtactttc gacacctact gtacgttgat ttcaccaatg ctgttatggg aatggtgcga 120
 caatccttta aaaccttatt gatacattct gagagggttg ttgtcatgtg gtcatatcga 180
 cgtccttttc tatcgtaagc catcgcccat ttttcctttg agatgcgac aatccatggt 240
 gctatggctg gactcagttc acgaaatttt tctaaatttt gatcaaaaat gtgcttgcaa 300
 ggagtgtagg ctgcataaaa ttagttatga ataacaattt taagtataaa tgaaagtaaa 360
 ataaatgtga ccatcaaata tgacatctta 390

<210> 21842
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21842

agcttctatg tttccattct atcatgggta gttaaagtta agtgaaggag aagccaaaag 60
 aaggttattt cttttaagtt tgactgcttt caagtcacat tggctctatac caaacaatta 120
 aatccctaag gttttgatgt caacaaagta taaattttat gtattaaaat ttcatgctta 180

agctacatgt tcatatatat atatatatat atatatatat atatatatat atatatgttg 240
gacaagtggc ctcaataact taagagagag gtgaattaag tttcaaaatt tttccactaa 300
caaattttta acccctctta natgcaaact caatctatac tggtttggcc actttctgtg 360
cctacattca gtcctcangc aaccact 388

<210> 21843
<211> 375
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21843

ttttttcctt ccatttatat ccttactatt ttaatatact tttaccctct gctcttcaaa 60
ttgttcatat gtaactatgt ttttaattact tttttctttt tattaatttt tgggttattt 120
atttcataat attataatat ttactttaac aacactatgt aattagtttt taattaaata 180
tgtttttgtc tacaaaacaa gaatagaatt cacataaaac agttatacaa tatgtttatt 240
attntatatt taccaactat ttcaataatt ttacaaaacg ctttaattta ataagcaagc 300
ttataaaactn ttaagcttta gctggtagct tataaaacttt agagcatctt attagtcagt 360
tttggcgaaa acata 375

<210> 21844
<211> 396
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21844

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gatgtcacia aatgtttgga gaaatattta tgttccaata ctgtatgaga gacctatatg 120
ttaacggtaa tgtgaatgta attttatgtt ttttggtata atgtgaatga acgaatatta 180
ttttaatggc ctggaacgag attaataaaa caattatgaa ttattaatag taataagtat 240
gtataggctg aatattttatt taaaattaag tatatgatag atttggtagt cattaaagtg 300
accaaattta taacgttatc taatntaaaa ttaatgatta tgtaattac tcatttgata 360
atagatgctc aatttatga ttattgggtt atggat 396

<210> 21845
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21845

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 tccagggaag tactgaatta taacatgtat agggaggaag ttactaatga ttaatatgag 120
 aaataagaac aataattatt tactattaaa tcatatttga atgtttgaga ttgaaagata 180
 aatgcacaat acctttttta gtagtcatgt gactactaac taacttttta tcttgatatg 240
 atcgaaattt ataatgctca catttcttaa atgagattgt tctagttata tatatccctc 300
 ggattgggat gggaaggagt aaaagcattt ttcaccacaa tcaaagtctt taacagggat 360
 aacctgtctt tttttttata tcaattaat 389

<210> 21846
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21846

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 ttcacaatgc aaagaatcta agaataaaac ttgttaagtt ctttaataaa gaatctcaca 120
 caaaaatata tatactaaaa gaaatcatca ttgaaaagaa aaatccaaaa taataacttg 180
 ctaatattaa tttatttaag tccttccctt tcctttttgg tcatcatcat taactctagt 240
 tcatcaagaa taaattaaca attttaagaa ttttattctc atcaagtgat ccaaattcat 300
 ctectacaat gtectacatt ttagtttctt cttgatggta ttgtaggaaa tttcttgaaa 360
 ggagacgaag attgttataa acaaatacta gatcctttgt ccaatgaggt gt 412

<210> 21847
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 21847

tgaagaggat gctttaatgg aggaaaagaa agagagattg gggcagtatg aaattgaagg 60

aataaaagag ggagagaagt tgaactttga agtgtgtctc ataagacttt cattcatcaa 120

agttaaaaca attgttacac atgcttctat ttatagacta ggtagcttcc tcgagaagct 180

ttcttgagaa aacttccttg agaagcttct ttgagaaaac ttcctgggga agctagagct 240

tagctataca caccctctc ataactaagc tcacctcctt gagaagtctt cttgagaaga 300

ttcctaaaga agttagagct tagctacaca cacctctcta atagctaagc tcacctcctt 360

gagatgagaa gctagagctt agctacaccc cctataatag ctaagctcac cccatgccan 420

aatacatg 428

<210> 21848

<211> 406

<212> DNA

<213> Glycine max

<400> 21848

agcttgccctt ttagagatcc aagaaggata aagcagctga aggaaccagt tccgctcctg 60

aatatgacag ccatcgtttt aggagtgtctg agcaccagca gcgcttcgag gccattaagg 120

gatggtcatt tctccgggag cgacgcgtcc agatcaggga cgacgagtat accgacttcc 180

aggaggagat agttcgccgg cggtgggcat cgctgggttac ccccatggcc aagttcgacc 240

cagacatagt ctttagtctt tatgccaatg cttggcctac agtggagggt gtatgagata 300

tgcgatcctg ggtgaggggg ttagtggatc ccattcgatg cggatgctct cagccagttc 360

ttgggatatc ctttagtgct ggaggagggc caggagtgca agtatg 406

<210> 21849

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21849

tcatgacgat gaatcaagta tgattcaagt agttttcatg atgacattat gccccaaaaga 60

atgatgtcaa tattgagtca acaagttcaa gaaatcaaga agattcaaga ttcaagagaa 120

gttgatttca agattcaaga ttcaagagaa gttgatttca agattcaaga aaagacatca 180

agaagaatca agattcaaga gaagatgaat tcacaagggga agtattgaaa aggatttttc 240
 aaaaacccaaa catagcatag ttttgtttta caaaaagagt tttcttaaata ttttctaagt 300
 taccagagta tttactctct cgtaatcgat taccagtttc ctgtaatcga ttactagtga 360
 taaaatntga tttcaaaaag ctttaactga atttgcaaca ttccaaatga ttnttaaagt 420
 gtgtaatcga 430

<210> 21850
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21850

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 tgttaatgct agagtatact attgacctct atacattaat agttgcgcac ggccaaaaac 120
 caagaacctc cagtaaatag ttgctagcaa gctgtttggc attcattggt ttggatgttg 180
 tttttgtata ggctgtcttt gattctttat tcttattaat tgctactccc actttgctgg 240
 aaatacatgc gcgttaatgg ttcaatgaac caacgtgtga ttaatcaata ttgagtggcc 300
 ttaccttttt ttttcttgaa ttactcattt tacctaacgc ttggacgggt ttatttggac 360
 aaacattntc aataacttta tcgaatgttg atcaaaattc ccatac 406

<210> 21851
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21851

gtgagcatga actactacca atatatagta tgttggttac acaaatgagc acatcttana 60
 agcatactcc gcacaatggt ggcctcttgg gaatgaagtg gcaattcctc cttctgatga 120
 tgcattggaca cttatccctg acccaactac aattcgtgcg aaaggtcggc caaaatcaac 180
 aaggataagg aatgagatgg attggctcaa accatctaac caccgacaaa aatgtagtag 240
 atgcggagca gaagggcaca ataggcgcca atgtccaatg caatctgacc gtgggagtaa 300
 ttcatntaat tgatttatgt atgttagatg agtgacttgt attggttgag gttctattca 360

atgtatttac tntgtggtgt tcaatgaaat cg

392

<210> 21852
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21852

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tgggtgaagtt ggagtataag gatggtcata gtatgattga gcacttgaat aattttaaag 120
ggctcgtaaa tcaattaacc aaaattgaga tgaagattga tgatgagttg caagcccttc 180
tactccttag ttccttgetg gaaagttggg acacactcgt ggttacactt agtaactcag 240
ctccagaagg aaagctcacc atggatacag tcagtgcag cctctcgggt gaagaagcaa 300
gaagaatgga acgaggtgag tctatccatc ccgaggctaa tgttattgag aatcgngta 360
ggaatgagac tcgtggatgt aataagagcc gagatctgag ttttcccaac act 413

<210> 21853
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21853

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atgcgtaata gaactttaat ggatatggtt agaagtatgt taatcaatta gactttaccc 120
gtatctttgt ggatgtatgc cttgaaaact gtcattgatt tggtgaacag gggttcctagt 180
aaggcagttc caaagacacc ttttgaacta tggacaaata ggatacctag tataaggcac 240
ctgcatgttt aggggttgcca gacagaaata aggatttata atccgcaaga aagaaaattg 300
gatgcaagaa caatcagtga atatttcatt gggtatccag aanagtcaaa ggggtatatg 360
ttntattgtc ctaatcatag tatgagaaat gtcgaaactg aaatgcaggt tcat 414

<210> 21854
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 21854

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 attaatTTTT tgctttacct tctattccat tgttgTTTT tcatTTTT tccatgtatc 120
 tcttcacatg tcttgtgata aatgtTTTT atatgattct ttagagtttc caccaattaa 180
 acttgctata gaagctagat ttgattttct atggttcaaa tttcttgttc ttgttcttga 240
 accatgaatt gtgttgagtt taggttcctt tgagtntgt cttgttattt ttttgtggat 300
 gaaacctata ccataaaatt cttacaaaaa tattaaagta gaagaaaacc tcaaaaatct 360
 agagtgactt gttcacctat tgtagttntg tcatagaagt catgtctagt tatg 414

<210> 21855
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21855

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 tgaattcaaa tttctagtaa ctgttataaa cattttcagc tactggtaat cgattaccag 120
 aaagtaaatt tcaattttta atgatttaga tagaattttt tggccaaacc ttttgttttt 180
 tcaatttgga aacttcttcc taagattcta gagatcaact taatcatata tcttgatttt 240
 cttggattct tggattcttc tcttanactt agaagcactt gatcctttgg catcatcaaa 300
 acatcaaaac atcttgcttc tacataggat tcatttgact taatccatca actgaataaa 360
 tcttcaact atntctcatc cttggaaaat tctt 394

<210> 21856
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21856

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 agttgttcaa gaaattctaa aaaattgttc taaaaagtta taaaaatgca agtcaaggtc 120

ttgcttttat agactcttca tgtctggtca agaaaaccat tggaagagtt ataaccttga 180
gaaaaacctg aaaaccattg gaagagttac atctcttgac tttttattca aaacttggtca 240
ctggtaattg attaccaaaa ccatataatc gattacacaa aacattttat gaaaggatgt 300
gactcttcac aattgatttt gaatttcaac gttcagatac actggtaatc gattaccaat 360
atattataat cgattacacc atttanaaat caattggaac gttgc 405

<210> 21857
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21857

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atggcgctt ctctcacctc ttttctttt ctccgctgc atctccatgg tggaaaatca 120
ccattaaagg accccattga agctcaaaga tccagcctcc atagaagccc ccacaagcaa 180
gtttccatca atatggataa catatagata tgacaataat cactgaaata aacttcatga 240
aacaggacct caacatcggt caacatgtcg agcacaatgt tgatgaaact taagtcactt 300
gagcatttca gaaccaactg aattttatac tttggttga ccttgattnt aaaggcaagc 360
acattaccca ggaacttacc 380

<210> 21858
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21858

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tttgatcatc ctactttgat gagtgagaaa gctggggcaa atgaagagga tgagaatgag 120
ggagaaaccc ttgatatgac tgccattcct acacggtcaa atttcccatc agcccaacaa 180
tgtcattact cagccaataa cagtctctca cccaatcatc cacaaaggcc atccctaaat 240
caaccacaaa gtctgtctac cgcacttcca atgatgagca ccacctttag cacaaaccaa 300
aacaccaacc aaaaaggaat tntgcagcaa aaagcctgta ggattcaccc caaattccgg 360

tatcatatgc taaacttgct cccatatcta ctcaataatt caatggt

407

<210> 21859
<211> 417
<212> DNA
<213> Glycine max

<400> 21859

tgaactaaaa tcggtaagag tgtgacctta aactgtgtgt gaacgactag ctgtgagtga 60
taatctttgc atgaatcttt gaattttaga atgaaatgta taaatgagga cataatgaag 120
gccatgattg tacatacaca agctcccttt ttgagctgaa tgatattgtc aaaaaatttg 180
aacctgaac tttaaataatt atctcctgat accttgttta gatttttagaa gagcatatgg 240
ttcaaggcaa atttactcta aatttggggg aggaaagtca attagaatga aaagaaaaag 300
gttaagcatc agcacacaca acaaataagt gtttgtaaaa aaaaaaattg tgttggtaca 360
ataaggtcaa aagcaacttg agaggaaaag atagtgagaa aactacttgt ataatac 417

<210> 21860
<211> 403
<212> DNA
<213> Glycine max

<400> 21860

tttgctatga gcaaattcaa acgacaataa ccttttactc ggatgtctga ttgagtcccg 60
taatatatcg agacgctoga aattgaatgt tgaagctcag agcaaattca aacgacaata 120
actatcttct cgtatgtttg attgagtcct gtaatatatc gagacgctgg aaattgaatg 180
tttaagcttt gagcaaattc aaacgacaat aactttttac tcggatgtct gattgagtcc 240
agtaatatat cgagacgctc gaaattgaat gttgaaactc tgagccaatt caaacgacaa 300
taacttttta ctcggatgtc cgatttagtg acgtaatata tctgggtcgc tcgaaattga 360
atgttgaacc tctgagccaa tccacacgac aataactttt tac 403

<210> 21861
<211> 346
<212> DNA
<213> Glycine max

<400> 21861

ccgcttaaac attcaatttc gagcgtttcg ttatattacg gttctccaat cagacatccg 60
 agtaaaaagt gattgtcgta tgaattggct tatagcttaa acattcaact ttgagcgtct 120
 cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgccgt ttgaattggc 180
 tcaaagggttc caaattcaat ttcgagcgtc tcgatatatt acgggactca atcagacatc 240
 cgagtaaaaa agtattgtcg tttgaattgg ctcacagggtt caacattcat atttgagcgc 300
 ccccatatat tacggcactg aatcggacat ccgagtaaaa agttat 346

<210> 21862
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21862

tagctttact agctagatag atattngtca aattcctaatt ggtcaaacat cattctttag 60
 cacgaatgca tattcaattc ttgtgttcgt gttcatatat atattacact ggcatacaat 120
 gcatgtttat tttctttaag atgtgccat ctgtccaatt tgtttgctat atatgagatt 180
 cattaatgt ttgggtaagg caattatacc gttcccgcca gtcataccat ttgtcattgg 240
 tcatatgcat agattaattc ataaagtntt ttttagccaa atcattttat agtttgtgtt 300
 gcagattata taatgtctta gaaaaaaagt aaatatttta aaatatatat tagtttacta 360
 aattaatatt atcctttaca tattttttta gactatcttt aattaatac 409

<210> 21863
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 21863

ttggggcatt aaccaaaaaa atgtatgttt gaagtaatat ttgattgcct ttctaaacac 60
 aatatgtttg aactttgaag tacacaaaag gatgtgaaag tgatgcaaac atatagcatt 120
 gaagcatacc aagtaagtaa aaacgtactc caatatgacc agctccagaa gaaagaaata 180
 gctccattaa cttgggttaga agacattgtc tgcatgtgtc atagaaacac tgttattaat 240
 gaaaccattg cacatatagt tcttcaatta accacaattc ttttcaactt ttaataatat 300
 aaagttccaa aaaccttcct ttcaaaggaa aagggggggg gggggg 346

<210> 21864
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 21864

tatcttctaa acacagcaac acagaatcta ggtgtccaaa acccctcaat tcaatgggtt 60
 ttctagggtt gaaaagtga attagaatg aggtaaattt gaggcaaact ctcacctcac 120
 accagtccat aacatccatt tagacttggt caaactggat ttacacctaa aatctcaccg 180
 aatcaaaatt tgactcttca acaccctaat ttgccttagc aatggctctt tgttcacttt 240
 ggtcatttgt ttttctctct agctcagcct aacctttctc acatgtccta agtgacattt 300
 caagctagta ttaactcact ttaacctcca tttaccacag aattcagact tagcctccaa 360
 ctctcaaagt ctactcttt ttccactcat aacatcacat tctgacttta taac 414

<210> 21865
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21865

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 ttaccatcac gattatcgtc tccctttcca ttattggggg taccacctgn gccgccagat 120
 cctccacct tttgggcatg tttttgaaag atccgtcccc ctttttgac atgttctgta 180
 gttgcacct attcagaacc atatcaaaat tgtactgata ctgcctaaca aaggcaacca 240
 ttangtcctt ccaagaatgg actcangaag gttccaagtt agtgtaccag gtaacagcta 300
 cccagtaag actttcttgg aaggaatgta tcagcaattc ctcatctttt gcgtattccc 360
 ccatcttcta acaatacacc tttagatggg tcttgagaca agtagtcccc ttgtacttgt 420
 c 421

<210> 21866
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 21866

tatgctatgc aagtcttgaa aacgaagtca ggaaactaag ggagcctctg gtaatcgatt 60
accagcctgt gtaatcgatt acatagaggg atgggtcact ggtaatcgat taccaggtat 120
gtgtaatcga ttacacagtg cttttttcca tttttcatgt cctgaggctg tgtaattcaa 180
gtttagcctc tggtaatcga ttaccaaggg tgtgtaatcg attaccagag atgaaaagcc 240
ttaagatacc cctcttactt gcatgtaatg gttttagaaa gtattgtgtg cagcgcagtt 300
agattcttgt gaaagagtct acccctctct cttctttctt gtagatcgtg atggcg 357

<210> 21867

<211> 325

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21867

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agtccttgtg ttcgaaactct cagccactta tgatagccgc cgatgatccc attactgctt 120
cccctaagct ctctgtcctt tcttcatgcc gcatcccatg ccttgccaac tccttgaggt 180
accctcgcgt tgtggacact gaaacctcgt gcgacgaaag gcgtgatgct ttcattctgat 240
ggcactcttc tcatgggaca tccttctcat gaagataaaa tcctgattct tccttcttc 300
tagcgaggga accatttaac agacg 325

<210> 21868

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21868

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gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaacaag gctcattttg 120
cttcaagatt aatacaagat tgtttcaaca acaaagcct tgattcaaga tttcttcaag 180
atcaagcctt gttcacaat gaaaggtttc aagtcattca aggcacatgt aatcgattac 240
caatacatgt aatcgattac caatggtttg aaagtgtgta atcgattaca catcatatgt 300

aatcgattac cagagactct gaacgttgag aattcanatt ttaaataag ggtcacaaact 360
gttcaagcan aataattgtg taatcgatta cact 394

<210> 21869
<211> 340
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21869

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gtgtatatgt gtataactgt attatattcg ttgttctggt tgttggttgt attttgtttt 120
gtgcagaaga aaaaagaaga agtagagatg agagtcgtca tcgcgaaaag ggcaggacgg 180
acgaaatcag tgcctatct ttgctttcct cttatctctg atgagaggta agtaaagagg 240
ggcaactgtc ataccctaatt ttcgtccggg gattattact tgatgacatg caatctttgg 300
ttagccgctt tgagatactt ggcgtncctn gttgcacaat 340

<210> 21870
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21870

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tccacttgta tagttatagg atgattatat taagcggaat atcatagtca agttaggagt 120
tgagagaata taaatttgaa tattcagaat aaaagaaaat ataattgttg attccagaaa 180
atgtgctgcc ctttttaagc tgtaaagcat gcacaatttt taggtgttgg agtgtcacac 240
aaccactcc aacaatgaca cttccttaaa aattcaatta aaaattatct tttactgtga 300
tggatatact tatattaagt agacacgtaa gtgattggat attcaacgac ccctagctag 360
tattataaaa aaatcacatt tctagtatta tanaaaaatc acatttttaa a 411

<210> 21871
<211> 429
<212> DNA
<213> Glycine max

<400> 21871

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tgcacctgtc gccagactct gtgggtttatg ctccctctgcc gaccaccaca cggacctttg 120
cccttctgtg caacaatctg aagcaattga acagcctgaa gcttatgctg caaacatcta 180
caacaaacat cctcaacctc aacagcaaaa tccgccacaa caaaatagtt atgacctctc 240
cagcaacagg tacaatcccg gatggaggaa tcatcccaac cttagatggg caaatccttc 300
acaacagcag cagcaacaac aacaacctta ttttcaaaat gttgctggcc caagcagacc 360
atacattcca ccaccaatcc agcaacaaca acagcaacag ccccagaaac aacaaacagt 420
tgaggcccc 429

<210> 21872

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21872

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actaagctca cctccttgag aagtttccctt aagaagattc ctaaagaagc tagagattag 120
ctacacatac ctctctaata gctaagctca cctccttgag atgaaaagct agagcttagc 180
tacacacctc ctataatagc taagctcacc cccatgacaa aaaaaacatg aaaatacaaa 240
aaaaaagtcc ttactacaaa gactactcaa aatgccccga aatacaaggc taaaacccta 300
tactactaga atggccaaaa tacaaggccc aaacgaagga naaacctatt ctaatattta 360
caaagataag cgggctcata cttagcccat gggctcaaaa tatacccta 409

<210> 21873

<211> 417

<212> DNA

<213> Glycine max

<400> 21873

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ctcaaaagtc aagaacactt aatgataaca aagatgatga tctcaagaat aaaagaatga 120
gttcaagatt gaatcacata cacttcaagg atcaagagga aagttgaatt caagaatcaa 180

gtttcaagat tcaagttcca agaatcaaga tcaagattca agaatcaaga gaagactcaa 240
tcaagataag tattaataaag ttttttttaa aattgagtag cacatgaatt ttttctcaaa 300
accttttacc aaagagtttt tactctctgg taatcgatta ccagattatt gtaatcgatt 360
accagtagca aaatggtttt caaaaaaaaa aaaaaacttt caaactgaat ttataac 417

<210> 21874
<211> 412
<212> DNA
<213> Glycine max

<400> 21874

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ttgtaggaat tggccaaaat ggtgatagtt caacaacttt tctataata atcagcggtg 120
gtgacaccag ctgagcagat gtaatTTTTt cgtgaaggtc ctttagttca gcaaacacct 180
gcatcatagc aaaataatca gctattggac ctagcatccg gaaaagttga attaagaacc 240
agctatatat agattcacac acaattgtat ttatttatca gtttttaata tcaaccatgc 300
agaagtacaa aataaaatgt ctcatattca caactacctc ctataacaaa acattattaa 360
gatcactata ttctattagc ctgcacttta gtgtcaggta cactctcttc ac 412

<210> 21875
<211> 329
<212> DNA
<213> Glycine max

<400> 21875

gaatgaaagt caaagtcttt gaaagggacc caagtaaagt taagaagtat gaatggcaac 60
aaacacatat acgtcatatt tgggtctaaa tttttcaaat ccttaaagaa aaattggcag 120
ataacgtcgg ccatgggaac aacaactaca ttggctaagt tgatatgact aatatgaatg 180
ggcaaaataa actgttttact tattgagtat accaacaat tttgaaaaat tgacctacgc 240
gcattttttg tattaaagaa acgacatttt ctttttatatc aaattaacta gtatattttc 300
atTTTTTTt taccatttca ttatgaata 329

<210> 21876
<211> 412

<212> DNA
<213> Glycine max

<400> 21876

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agcttgatta tgggtgcttta atggaggaaa agaaagaggg agagaaagag agagggggga 60
gcacaaaatt gaaggaaaaa aaggagagaga agttgaactt tgagttatgt ctcacaagac 120
tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct 180
tccttgagaa gctttcttga gaaaacttcc tagagaaact tctttgagaa aacttccttg 240
aaaagctaga gcttagctac acacacccat ctaaaaacta agctcacctc cttgagaagc 300
tagagcttag ctacacaccc ctataatagc taagcttacc cccatgacaa aatacatgaa 360
aatacaaaaa aaaatcctgc tacaaagact actcaaatg ccctgaaata ca 412
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<210> 21877
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21877

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ctgtctgaaa ttttgtgggg ctgagtgaag agagagagag ttgttttttg gttttaaata 120
aaagggtttt ctctttttta tgttatttta ttcaagctct gccacatgtc cctatttgag 180
tggagcaaga agggccact ttctcttttt gactgtgacc catactcagc cacaaaagtg 240
agaaaaatct gacctttgaa acgctaaaat cctgcctcgg tttgcgtgtc gtttctctgg 300
tttccagang atggaatatt ttgtgttcgt cgggtgccagt ttttgaaagt aaccaatata 360
tatatcaaaa cgctcagaat aaaaccccgga gcgt 394
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<210> 21878
<211> 358
<212> DNA
<213> Glycine max

<400> 21878

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agcttgctct atatttacat tgatgtttgt atttatggga ggaggttata tgccattttt 60
gctttaagag taacgtccca ctggtaaaac taactttcca aatgtttgcc ttcgcaggaa 120
```

tggccccgag gaagcttgcc tcaaagaggt ccaggaagga caaggcggcc gaaggaacta 180
 gttccgcccc ggagtagcac agtcaccgct ttaggagcgt tgtacaccag cagcgcttcg 240
 aagccatcaa gggatggtcg tttctccggg agcgacgcgt ccagctcagg gacgacgagt 300
 atactgattt ccaggaggaa atatggcgcc ggcggtgggc accattgggtt actcccat 358

<210> 21879
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21879

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 gaggaatctt ctggagggcc caagtgggccc tggttgctat ttgcaccccc atttttacta 120
 aatacacccc ccttttctat ttttttgtaa ctatttttct gtaacgttac aaaactttac 180
 gaacttcgta acgatactta ttttttcttc tgcaaggtta cgaaccctta cgacttatgt 240
 atttactctt ttttagcttt caaagaagtt acagaaaactt acggattgcg canaaacacc 300
 tctttttgac ttccgccaca ttacggaagt tcacggatcg cacaagcctg cttccttttg 360
 atttctgaga catctcgaaa cttcatttat tgcatgtcat caagtaataa tccccg 416

<210> 21880
 <211> 241
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21880

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 tttttggtgg caaggacgag ctttagccca tcaatccttt ttctatatct atcatattaa 120
 tgatccggcc tcctttgata ttttaccaga aaaaatctta ttcacctggt attccaattc 180
 ctaatcccgt gatgtgaccg ttttatttca tataaattaa atccttcttt tatatgggca 240
 c 241

<210> 21881
 <211> 339
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21881

cggaccttga aactagctga tttgtgccat agagccagat ttgatattgt tgggcnggaa 60
gcagatatat gaagatctag gacttctcat atggctgcag aaagagaatt ttgagatatg 120
tgaaagcaca cttganatgg cttcttattc tccaaagcaa atcataatca aggaataacg 180
taattgggtt tctaattgcag actnagtggg atgtnaggac acaaagcccc taatatgttt 240
caatactgga tcacaatctg cttgattcta aaacaagaaa tgtagatttc acttgagta 300
aagacatggc tatgttcaca gctgcaatca cctgggtgga 339

<210> 21882

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21882

tctgcttctt catcgacatt ntttctctct cttcatcttt tctttacttc atcgacacat 60
gatatgtctt ctaaagcgta ggaaggttcc aaatgcgttg tgggtgggcat tgtgttgtgc 120
agtatatgat tgcagcgtct gccatccttt tccctggaca tgtaggcaga gttactccac 180
agagtgtaac ttatagcttt gcaacccttt tgcttgacct cctcagtggc aatcatattc 240
ctccaagcca tgtaagtttc tttacttaat aaaaagttat gcaaacaaca cttatttgtgt 300
tgtgtcctat aatgttgtct atcttagtct aattgagttc ttccttttga tcaatttctt 360
cttctgattg ttctacctan aatcaagtaa gaagtacctg tcaaaaaa 408

<210> 21883

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21883

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attgnttagg agacagagaa atgaaagagt gattaaggat gaaagggtga atttcactaa 120
cttgataaaa aggcaaatag tagagaggaa gaccaaaaat tcatataggc tccactttcc 180

tctctgttgt gtcgcaaac agatgagact ttgcgcaaca ctattatttc tgtgtgaaac 240
 cacaattagt tgttgcttac tatcttgcta agtatttttt taggcattta tcttcttctt 300
 atttaatatg gtacagtaat agaaagttgc taaaataaat gaanatgcat ataaaataat 360
 atgcatctct taognaatat atatatatat atatatatat atatatatat atata 415

<210> 21884
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21884

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 gttcggactc tcagccactt atgatagcca ccgatgatcc cattactgct tcccctaagc 120
 tctctgtcct ttcttcaogc cgcaccccat gccttgcaaa ctccctggag taccctcgca 180
 ttgtggtcac taaaaccccg tgcgatgaaa ggcgtgatgc tttcgtctaa tggcgctcct 240
 ctcatggggg agccaagctg tcttatggcg agaacgggat tataattaat acaaccctt 300
 gttcccatca agggaacatt tggacatcct tcgcatgaag atagaatctt gattcttctt 360
 tccttctagc gagggaaacca attaacagac gcccncccat gc 402

<210> 21885
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21885

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 tggcgectcc tctctcctct tctcctttgt cttccgcttc atctccatgg tgaaaaatca 120
 ccatcaaagg acctcattga agctcaaaga tccagcctcc atagaagccc cacaagcaag 180
 cttccatcac aaattccgca ccagcatgat tggagtaccg accttaagtg ttaatttgtg 240
 attaggtatc cctgatgttt tcaatgagtt tagaaattta ggtgtcagta atccgaaagt 300
 aggattgagt agttcatctt atttatcaat gttatcagtg ctacaatact ccttttcgctc 360
 attgggtatc aatgataaga cnaataatnn tatttgtcaa caata 405

<210> 21886
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21886

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 tggaggaatc ttctggaggg cccaagtggg cctgggtgct atttgcaccc ccatttttac 120
 taaatacacc cccctgcttt ttttttgtga ttcttttttg gtaaagtatt ggaacatac 180
 gaattttgta acgatacttg ttttctttcc gtaatgttac ggaaccttgc ggatcacata 240
 atcatcccct ttttgaacta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300
 ccatttgatc tccgggtgtgt cagcgaacct tacgaattgt gcatcaatat tttctttngt 360
 tttccggcac gttccggaat ttcacaaatt gcctaattgat gg 402

<210> 21887
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21887

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 gagaaagcaa aaaaggaagg aaaggaaatt cccaatcaaa gagtgggaga aagagaaaaa 180
 aaagaaacga aaggaaattc ccaatcaaag aagtgggaga aagaaaaaag aaaagaaaga 240
 aaattcccaa ccaaagaatg ggagaaagta aaaaagaagg aaaccatgac ctanaagtgg 300
 ttttctccct ttgattacca accaaaatcc tgtgctgtag cgactttttc gccccgcgct 360
 aaacaaaaac agaaaaggaa aaagccaacc aaaaatcaaa gccaaaacac aca 413

<210> 21888
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 21888

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 aatgccattc aaccatactt ttttagttgt caataacttg ccatcaactt ttttagtcaa 120
 tcattttgaa tttgtagtct tgttattgaa gaccctccca cacgtgtgct tccgttcaaa 180
 tgtcttcatt atgaatgttg tgttgttttc cacttggtt accaaaaactt taaatgaaca 240
 accttttgac ttacacataa ctctaactct aattttgtca ttttttgga acctaacctc 300
 cattctaata agaatcaaat actctctcat tgcattcctta tagtcaacta aagagttaaa 360
 cttcatttcc aactgaaatt tgaagttctt tctaattc 398

<210> 21889
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21889

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 gtcttcagcc acccttctga atccaatggt tcagctgtcg ccttctcatc tctacataa 120
 cctgcaccgg caccataatc accattcatg gaacatatta cataagcaag accataaaaa 180
 attaagtata tttcgctagt gatatgaagt acgtttggta aaaaacacga atcatattca 240
 tcttgatgg cttaacctga aattggtatc atttattang aatcatgatg ataacagatc 300
 ttagaatttt atgcactnnt ttaatcgatg gttggtttat aagcttttct tcaactaccta 360
 aatcctcttc ttgtctcagt tataaggaaa aaaca 395

<210> 21890
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 21890

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 catgattgac tgcaaaccga ccgcgcgat acttatatga tatatcctct agcaagcaaa 120
 aggcagtgac taaataatac tactatctat ggaacacaca atgctgactt tttacagtta 180
 tacgagacta ctattatctg atatctgaaa ttacttttaa ccagctttct catttgattg 240

cgtcaccttg tgctcgggac tttggcatct acacactcca tctcagaagg acaggacccc 300
 atatagtatc agaactatta gacgaaaaca tgacagaatc ctctgcgtgc tatatccctc 360
 attatagtac aagactgtga cgagtct 387

<210> 21891
 <211> 337
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21891

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 ggctgaaact atcatatata taaataacca attaactaat atctctccac aaagaaacat 120
 tattcgacat ggggcactgc ttcagcaaac ccagcacaaa cgaaatacca ttcaactatg 180
 attattcacc accccctcat cattatcagc cagcccgca ctcacactca gactcaagga 240
 gaacacaaca acctcaactt caacctcaac ctgtgtaccc caatcgaact ccaaaatcag 300
 acccatctcc atcatcatca tcatttggtg atcaaga 337

<210> 21892
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21892

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 ttcacccgac gaagacactg acaaaaactt atcttttcct tcttggacaa agcatggcag 120
 gctgggggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcgtataccc 180
 atatcaacta gatcttgacg ggtattcaag ccacccctcg tcttgccttg aatgttaagg 240
 agtgtgccaa tcacactgtc acaaacattn ttctccacat gcataacatc aatacaatgt 300
 ctaacgtcaa gatcacacca gtacggaaga tcaaagaaat ggatctcttc tttcatatgc 360
 cactctgact tttatcctt 379

<210> 21893
 <211> 366
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21893

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gaagaacggt tcaaaccttt gcgagattcc tcacggaaaa cgttacggaa acgtttcggg 120
agcgcctcgg cttaaatttt cttcacggaa acaatttttc caagcaaatt cgaaagagag 180
agaagtgcct aacgggctgg accccttctt tcttcatttc ctcccctatn tatagcagaa 240
taggggaagt ggttgctgcc cagctcgccc aggcgagctc aactcgccca ggcgagcagg 300
gttgctttct ccagaagcac ccgccttctg aggaatcttc tggagggcca aatgggcctg 360
gtgcta 366

<210> 21894

<211> 412

<212> DNA

<213> Glycine max

<400> 21894

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cttaacggct tacgctaaga gcgaatttag tgtgaaaatt aagttacctg aaggctatat 120
aaggaggaag aagtagaagg gaaagacaca cggagtctta gagctatcca aagcctcagt 180
ctatccctta ggggaaaccc ctctctgttt ttttatccat ttcccttttt cttgctatta 240
gtcatccagc cttttctttc attagctccc gaagtgtaaa gcctctaata actatgagag 300
gccaaacccc tttttgttgg gagccaggag gccgaactct tgtaatgtaa ttcttcctta 360
ctatctatct aatgcaatta tgtttctatt attcttcttt gtgcttttat gt 412

<210> 21895

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21895

tgccgttgga gttgacctat caactgtcct aattctctca gactagctac tcataggctc 60
ttgatcttga cttgatagaa cctcttttta agcaaaggca tctaacttga tcccatgttt 120

tactagagtg ggaaaaaaag tcttgtttga atcaatactt cgacatctac catgggtgaa 180
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tgagagcccg gaagattatc tcttcttaat tacaacattt ggcagcacag tgccccacgc 300
atgtacttaa gaagggtgaca cgaaccttcc ggcttctcgt gataaatgaa cggaccanaa 360
tacaatgcaa gtgcgatgac gtgacgcaga cgcgcgaaag cacaacaagg tgatgtacac 420
agtat 425

<210> 21896
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21896

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ctcaataaag gcttcttttt actattttta aaggtgaaat atattagttt tatgatttgg 120
catcaaatat gttcgtgaca ttgtgaacca aaaactacat taaggaatga gcttagactt 180
tgttgttgct tgtaatttat cttgacacag gtaaagttag aggaaaattg tgaagggggt 240
tggatgagaa attttattcg aggggggaaa gttcaaaatt taaagagttt taaaaatttg 300
gggaggggaat gaccctgag gcatccaaaa gagccacctt tttccccgag agaagctcga 360
tttgtatatt tgtttggttt tccttanatt cttt 394

<210> 21897
<211> 427
<212> DNA
<213> Glycine max

<400> 21897

tactatattt aacagctagc agacccgaca tcacctatgc agtaggtggt tgtgcaagat 60
atcaagccaa tccaagata agtcacttga atcaagtaaa gagaattctg aaatatgtaa 120
atggcaccag tgactatggg attatgtact gtcattgttc aaattcaatg ctggttgggt 180
cttgtgatgc tgattgggct ggaagtgcag atgacagaaa aagcacttct ggtggatgct 240
tctatctggg caacaatctt atttcatggt tcagcaagaa gcagaactgt gtgtccctat 300
ctactgcaga agccgagtat attgtagcag gaagcagctg ttcacaacta gtttggatga 360

agcagatgct caaggagtagc aatgtcgaac aagatgtcat gacattatac tgtgacaacc 420
tgagtgc 427

<210> 21898
<211> 416
<212> DNA
<213> Glycine max
<400> 21898

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aaagctagct cgtatTTTTT atgttggagt gtcctcaatt aataggggtga gtttggatgt 120
tgctttagg ggcaacctca tgttaaaacc ccatgttgggt gaaatcaaaa tcattgaaga 180
catgtgttct atgaaataac aacaatcaca ctagaagagg ggttgaatag tgtgtcaatc 240
aaagatcaaa tatatTTTTT gttcaactgt aatatcatag attcatatat atatatatac 300
atatatatac acacacacac tagaattgta aaaaaaaaaa acaagtttaa tagtccaata 360
aatatatgaa gtaagaagtt taaaagggtt ttcaaataga caccaaacac gctaaa 416

<210> 21899
<211> 427
<212> DNA
<213> Glycine max
<400> 21899

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tcataacctat ggagcatttt cttgagcaag tagcctggcc tgaagctcaa cttccattgg 120
tgagacccaa cgaagttgct ccgctgagc ccacacctgt gcaggtttat ctaaagccaa 180
ctgaccata atctcaagtgt gtgaatccac cttcttctct tgagcttaaa ttagtgtccc 240
catctccacc tctgattgtc atcttcgacg catcatcaga tgaagcggct accctctctg 300
attaaccagt tggagaaaca attgatcccc ttgcttcccc ggttggagga attgccgac 360
ttctgttttc gtcactgga gaaagctgtg ctctcactga ttccccagtt tagacactgg 420
tgacatt 427

<210> 21900
<211> 409

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21900

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ttctggagga cagaggacca gtggaggact tcaaccagtt ggtgggagtt ctgagccaat 120
taacaggggtg tctcagtctg cgggtagagg tagtgggtggt agtgggtgctc ctgctattgc 180
tactacacca ctgaggtgtg ggaagtgtgg tcggcttggg catattgcac gtgagtgcac 240
agatagagag gtgacttggt ttaactgcc aatgaagggc cacctcagta ccagttgcac 300
atatacgagg agggagaata ggagtggag tctgaataat cagagtggac gaccaatgac 360
cacagggaga gtgtttctct tatgntgctg atgccacag tctgatgaa 409
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<210> 21901
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21901

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ccanaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180
tgatgtacct aagcaagcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240
agcatggagg cttgtgggtg ctggccagct gtgaatcttg tgtgatatgt ggattatggc 300
ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttaaaaa tgaagacaag 360
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<210> 21902
<211> 393
<212> DNA
<213> Glycine max

<400> 21902

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tattaatagc ttttcatctt tagagtgggc gcccatctta cggcagtaca tcttgagatg 120
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gtttttggga caagtcgtcc ctttatactt gtcgaagtcc ggtactttga acttcggggg 180
aataacaaca tggggtacta agcaaagatt cgctatgtct gcgaacggat aatccccaaa 240
tccttcgacg gccctcagtc tttcctcaag gagatcgagc ttcttccttt cttcagttgc 300
tggaggcggc ccttcctgtg acaaaactat tgggtggtgct gcgatgttgg gttgaggcaa 360
cgtgcctggt gcgggccctt cgggatcggg gat 393

<210> 21903
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21903

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ctggctctctt tcttcccttc gcaacttgag ttactatttg ctaccccata gagctccgcg 120
aaatttggtc cggccatact cttccttgcg agccctcttg gtctcttggt caagggctct 180
tgcagtaatt gcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcggc 240
caacttgaac ttctccttgg caagttttgc ctttcctaac tcgcttttga gagtttggac 300
ttcttcgtcc tcttcgggtg cttcaaaact ctcttcgctg acgaactntta acttggcgag 360
ccaatctaaa cctcgtatat gaactntcat ccattcgtgg taccacaa 408

<210> 21904
<211> 403
<212> DNA
<213> Glycine max

<400> 21904

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tcattctact gctgcatgc aatgaatatt tctccctaac aagatcaatt ttcaaatcgc 120
aacggtgaaa atatgcagaa atgaatttcg aaccaggtgt cccaatttca caatgatcca 180
acggttaatg agtctgggat tatagtttta ctaggacagg ttttgggtct ctgcaagaaa 240
agaaaaagtt aagatgagaa gggaatttct ctcacctcca actctgattc gcaatttcca 300
tcggtgagaa tacttgaata tgagctgcaa acttgggtgct caaatttcac aacaatccaa 360

cgattaacga gtccaagatc attgttttac tgagacagat ttg

403

<210> 21905
<211> 356
<212> DNA
<213> Glycine max

<400> 21905

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gatagatatc aaagtgtgaa tacatcctaa aatacatata atggaaattg atgattgaat 120
gttcaagcaa aatgtctaaa aactaagcct acccatacat atacgaaaga gagagaacac 180
actagtctca aagcagtcac cactaaaccc aaacccatgg caaggaacta cacaaacgtg 240
ttgagataag agctcaacaa ttagaagagc ccccataatg ggactcctgc gaggaacat 300
cacacatgac ctcatcaaga tcctctacag gaccctcatc attgctctcc ttaatg 356

<210> 21906
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21906

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ccatttatgt attaaatcta acttgatagc ttaagattaa aaaaaggaaa aaaagggttg 120
tcatgcctca aataaaaactg gctttttctt ttacactggc atcgtgggtg ggtacacatt 180
ctggtaacaa ataattacaa ttattcctac aaaataatcc agaccacccc atttgtgtgc 240
agcactagcg ctactagatg gatgataaaa tgggaggcct taatagatgt atgtttcttg 300
tggattgtta taagaaccaa ctntgttcac ccaaagggtta actagtctcat cacgttgata 360
ctacaacaaa atagaataca tcctttttaa aacaaaagtt gttcaccac 409

<210> 21907
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21907

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aacacgacta aaatccgtag taagatgaaa aataaatttt caatttaata cttattagcg 120
tatatttaaa agaaagctgt tagaaattag taattattga ttatttttgg gacatgtaag 180
aaagacatta tgtgtgcttt ttttagcgag acaatgttat ttggtttaat agactaataa 240
tgtaatttaa catattgaaa catcaaatta taaatattct gtacaaaatt aatggatat 300
agatgctgga tgtatttatt cagcataaaa aggttcctgg atgtatttta ttttttgaga 360
ctggccgtct ctatcttc 378

<210> 21908
<211> 409
<212> DNA
<213> Glycine max

<400> 21908

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cgtgactggg ccctctcttc ctttcgcagc ttgagttcac tattgctacc ccatagagct 120
ccgcgaaatt tattccggcc atactcttcc ttgcgagccc tcttgggtctc ttgttcaagg 180
gctcttgctg taattgcatt ctcttcccgt aaccgcgcac actccttcg aatgtgtggt 240
gctggccaact tgaacttctc cttggcaagt ttgcctttc ctaactcgt tttgagagct 300
tggacttctt cgtcctcttc cgggtgcttca aaactctctt cgctgacgac ttttaacttg 360
gctgagccaat ctaaaccctg tatatgaact ttcagccatt catggtagc 409

<210> 21909
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21909

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aaacaaatca aacgtaacaa gacaattata gttgctgttt gaatacctca cccactcaag 120
tgtatcacac aattatggct tttctctaata gaaacactct tgccttttac cactctaatt 180
ccccttgagt tcttaggcaa ttcaagagat tatggccaca acaagaaca attcaccaat 240
atgtgtaagg taaggctaga gagacaagga aaagggtaac caagaaaaag gctaacaatg 300

tttttaggca caaatgaagg aaataaaaatt cagaatttat gaattcaagt aacaatcctt 360
catgcaacca atatatt 377

<210> 21910
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21910

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cgtaagcatt gttggattag gagaaccttt gtctaaggcc tatagacttg tgagtgcctt 120
tttccttatt cacttgattt ctggattaaa ccttcatgtt ttttttttgc acagcaaaaa 180
tcagataata ttataaatga ttcagtacta agtgtactga agataagctg aaatagatac 240
caaggcagag aactgccgaa cccaactaca taggataaaa gcacagtagt tggagggtta 300
agtcgataga ataattctgc tgagtactca cttggttntt ntttttgctc atcaaanata 360
gataatatat attgatagag taccagtggg acgaanatac aagggtact 408

<210> 21911
<211> 403
<212> DNA
<213> Glycine max

<400> 21911

tgaagggtgtg tagtccacca tcttttatat tagaatattg gtaatgtgtc tactattatt 60
gtcatcattt tttttccgctc attgaggtgc cacttgagct gccaggttct ccacctttgg 120
gggtattctt tgaaagatcc gtgccccctt tttgcacatg ttctgtagtt acatcctatc 180
cgaagccatt atactgacac agcctaacga aggcaaccat tatgtccttc caagaatgga 240
ctcggaagg ttccaagtta gtgtaccagg taacagctac ccagtaaga ctttcttgga 300
aggaatgtat cagcaattcc tcatttttcc cgtatgcccc catcctccga caatacatct 360
ttagatggtt cttggggcaa gtagtcccct tgtactcgta aaa 403

<210> 21912
<211> 412
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21912

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ctatcacaga aaaacatgat agaaggaata gtaatctcaa agtgcagtaa aagtcttctt 180
agccaaatca cttcactaga tattgaggag agtgcccgat attctgcctc aacagaagac 240
ttagacagaa tgggttggtt tttttatttc catgatatta aggtatctcc taaaacacac 300
aagaaccaga tgttgatctg cgtgtgtcca agcactttcc caatcagcat ctgcttatgc 360
agacaaattg catgaattgt ttgatgaata tgacaccctg acctgcagac cn 412

<210> 21913

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21913

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tatagttatg ccttagatta acagtggtca tgccgttaag ctatgacttc agtggttattg 120
ataaaactga gttaagtttt gagtactttt tcactattag tagaagtacg caaaaaaaaa 180
aaaaactttt attttttggt ctatgtccaa ggtaattac agtcgtgggt gtgggttggt 240
gggatccttg acattgccgg aaattgtggg caaatgcaat tgcaattgtg gtcgcgatgt 300
ggttgtggca agcctcaaaa ccttgatatt gcagctgaag ctgtgtactc ttatatagtg 360
cacttagctt tataatt 377

<210> 21914

<211> 372

<212> DNA

<213> Glycine max

<400> 21914

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atgatatcca ctcgacaagg tttgaagtag aggagacctt caatcctata atgcaacgtg 120

gcggacaaaa gtgggcagtt aacttgaatg gccattattg tcaatgcgga aggtattctg 180
cgcttcacta tccatgttca cacattattg cagcttgtga ttacgtgagc atgaactact 240
atcaatatat agatgttggt tacaccaatg agcacatctt aaaagcatac tccgcacagt 300
ggtggcctct tgggaatgaa gcggcaattc ctccttctga tgaggcatgg gcactaatcc 360
ctgacccaac ta 372

<210> 21915
<211> 381
<212> DNA
<213> Glycine max

<400> 21915

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aacaagtttt tccacatcca caatgcgcgc ataaaccac catcccctgt agcccacctc 120
caactgagct cacgtactcc catgtagccc atatcctcgt ttctctcaac accgggtccc 180
catcaatcct cccaagcttc cccaacatca aagtaataca acattcaaac agcacaaact 240
atcacagcca agaaaacaga gcagaggcag aaaactctgc caaaacacca accaaaatca 300
cagcttttct cacttaaaga cccagtaac aattccttcg ttccaattcg ttaaccgttg 360
gatcgactcc aaatttttac t 381

<210> 21916
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21916

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ttttttgcaa gcttaattaa taatgaaagg aatggagaga aaaaatggaa aaggttaaat 120
ccgtgcacaa attataatcg tcgttaaaaa tttaataata ctgtcgttaa aaaagtattt 180
tctagtagtg gtaaagttca ctttattgat tgagtcataa cttaataatt caatcttatg 240
cagtcacaaa gaaagttgaa atttgaacac aaanagaaa taaagatgaa gatttactag 300
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gttaatggta catatatcat catatttaa 389

<210> 21917
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21917

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 ttgtattgtg gattatctcg aatgcgtgct tcaacagatc ttgcaacca acctactgat 120
 gcctgctgat gatgaagggt ctgaactccc tcgcaagtat gctctccgtg tagagttctt 180
 acagtaaaaag ttggaacacc gggacacttt gctacatgga cccgccatgg gcacccttct 240
 ttggagcatt ntgctataaa acgactgcga tctgacttaa ctatcctaag atcaaaatgc 300
 atagcaatgg caatatcttt cagtgttctt cggcagggtt tcacatctgc aaactcttgc 360
 ccaatgacta acggctgctc tgctacagta acagtactaa cagatgtgt 409

<210> 21918
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 21918

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 cctgatecct ctgctcttat aatcaaccct ctaagatata gccaatgtaa gaatctaaat 120
 ggaaaaatgt ctaagaagtt atgggaatac acatatatac aatatgtaaa gcatagtaca 180
 cttaattaaa atataaaaac ataaatttac atgtgtatcg cagagatatg attgctatga 240
 ctttatctgt gatcatatcc cagtttagac acgtagcgta cgtggtacaa aaatttgcaa 300
 gtgtatatgc acagcagtgc ttgatgacaa ttaacaaaag gtttaattgac atgataaaaa 360
 gggtatcaaa aaatataaa 379

<210> 21919
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 21919

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 gtgggcctca aaagaattat tgatggcatt gaggaatgac tctatttcct catgaagctc 120
 atcaactact atatcattga atctaaaagc ctcaatgatt tcttgctgaa gctttccttt 180
 gtagtatgga ttcgaaagag tgtcttcaag gttctgatca aaaacaagtt tttcgaaagg 240
 agccacaacc tcattgaaat gggtaaaagg catgttgta ctcgatgtgg aggcctttga 300
 aggcatagaa tctgaagacc aagcatcaat gaaagtgaag gggatgcat ccattggatt 360
 cacatctacc tgaggag 377

<210> 21920
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21920

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 tgaccagata gatcatgttg tctaccacta aatttctcta tttgtagcga catagatcgc 120
 gaacctactg gacatcttct ggctcaccct tcatgattaa ttggaaactc gtcaaggagt 180
 tatattactg tgtggcttga aaagtcttat tggaaaatct gatatccctc ctaataggcc 240
 acacatgaat cttactgtta atatttaa atagatatat gagcaggggt gctcctatac 300
 cttgacgact caaaacgggc agcgcggtta tgggtctttt gaaagttacg aaggcttgca 360
 cataagtctt gttccatgag aatggctgac cctttttag cactctgtta atgcttcac 420
 tttctcgcga tctatggcac gtacctggac aacgatgcta tcctacc 467

<210> 21921
 <211> 383
 <212> DNA
 <213> Glycine max
 <400> 21921

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 atctcccat ggagggggcc catcaccaga gtcattgtta agagactcca ggaagattgg 120
 gccagggatg caagagaatg ccttaggggt ctcattgagcc ttagggtagc ttttgggccc 180
 atgggttaag tatgtgcca cttatctttg ttcattatag attatgggtt cattattttt 240

ttgggccttg atttagggca ccacagtgtg gggaggggtac ccataagtt tagggtagcc 300
tagtaatgta ggatttttca gcccttgat tttagggctc acagactagt ttttgtatca 360
gggatagttt tgtaatttca cat 383

<210> 21922
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21922

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ttttgtaaaa ggttttgaga aaaattcatg tgctactcag tttttgaaaa aactttttaa 120
tacttatctt gattgagtct tctcttgatt cttgaatctt gatcttgatt cttggaactt 180
gaatcttgaa acttgattct tgattcttga aatcatcatc tttgttaaca tgaagtgttc 240
ttgagttttg agctttttgt catcatcctt gttatcataa aaaatccttg aatcaatctt 300
gattcatcat gaagcttgct tctacatgaa agcatttgaa aataaagcaa caattaggca 360
atatatgtat atacatcaag catggccaan atacatcatc aagcatg 407

<210> 21923
<211> 377
<212> DNA
<213> Glycine max

<400> 21923

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aaatataaaa gaagtcatat tagatgataa ctggatcatt gccatgcaat aagaactgaa 180
ccaatttgaa agaaacaatg cgtggaaatt agtagaaaaa cctgaaaatt atcctgtcat 240
aggaacaaaa tgggccttta gaaataaatt atatgaacat ggtataatta ttagaaataa 300
agccagggtta gtagcaatag ggtataatca agaagaagga ctagactatg aagaacata 360
tgctcctgtt gcaagat 377

<210> 21924

<211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21924

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 atatatatat atatatatat atatatatat ataggtggaa gccacgctc gacattccaa 180
 tttttattcc cattacatta tattggaaaa ttctgtaata tctgaatccg gtacgatttt 240
 caaccaacaa ttaaaaagga gtcaaagtgt ttcttctgta taaagaaagg acacatatag 300
 aaggactgcc ccatatttaa aagttggtgt gtgaagatag gtacaccata tactatcggt 360
 tgttatgaat ctaatatgat taatgtacat cataatacat ggtggataga ctctggctct 420
 acaatccatg tggctaataa ctgcgaggt atggaaagtc tatagaagcc agctgggtgt 480
 g 481

<210> 21925
 <211> 297
 <212> DNA
 <213> Glycine max

<400> 21925

ccaaactgaa atgagatgcc atgatgccat atacccccta aggattttta tttaaaaagg 60
 gatcgaagca ataatcagta tgctgctgaa gaatgcaaac accaaataag gggaagattt 120
 gttgaaatga gagacgtgta acatccaaag tgtgggctac gttaacatgc cgtttgttgg 180
 agttaaacac aatgggttgag gatgaaacct ttgacataaa tctgttagaa ataccccata 240
 tcctcgttag accacttttc ataaattcgt ctatactgta caagtcaata tgatctt 297

<210> 21926
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 21926

agtttttaca cttagggact aatgtgaatg aaagaagggg ttggatgact agaagaaaga 60
 aataggggaa tgactaaaaa ggaaggtttc ccctaaggga tagactcagg cttagattt 120

cttcactaga gagctttgag actcgggtgtg ttttttcctt caacttccta ttccttttat 180
aagcctaagg tagcttactt ttcacgctga caacatgcac ttctagtagc aagaatggcg 240
gtttaatcac gcgcttagcg cagtgttcgc actaagcgcg accctatgcc ttctttgcac 300
taagcgcgag ctggccgctg agcgagcatg catgctgggc tcgtctcgtg tgctaagcaa 360
gctgtccact tctt 374

<210> 21927
<211> 399
<212> DNA
<213> Glycine max

<400> 21927

ctccgcttga ccttcttagt tgttctttgc taaaattttc ttattgtttg caaataaatt 60
gtcaaaatac tgaacatctt taggggtgagt atcacatgta aaattaaaaa tatgttaaag 120
atTTTTatta ttgttttttag tgataaatct tattttaaaa tcttagatca ttcttaatag 180
gtctcacatg aatcttatct tttaatatct aaatatTTTT ttctttttat tttctttctt 240
ttactttctca tttctcagcc gtcatgctct ctcaatcctt cttttttttt tcccaatgtt 300
cacactttct tatttttctt ttctttccct gccactcccg ttccctccca cttcatgctg 360
actcaccctt accctccccc tccctctgtt aacttcctc 399

<210> 21928
<211> 283
<212> DNA
<213> Glycine max

<400> 21928

aatcttattg caaccacgag attcagctcc tgagaggaat gtacgtgcta taactaccat 60
ggatggggcg ccatcaccaa agtcatgggt gacagactcc aggaagatcg agccaaggat 120
gcaagagaat gccataaggc cctcatgagc catatgggtat cgtatagtgc ccatgggtta 180
aacatgcgcc cactgatcat tgtgcatatt atatcatggt aacactattt ggtggagcct 240
cgactcatgg cagcacattg tatgcaggga tccacataat gtt 283

<210> 21929
<211> 408

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 21929

 aactaagcnt taagaattag aattatgatt tttgaggcat gttttataaa tgttgattct 60
 gatagcgcgt atttgaaatt tcattgattt gtttgcacat cctatgtata acactataaa 120
 atgggataaa tacattgggtc tttagatttc accttaataa acaaagctga tgcttcacat 180
 ggatattgat atttgaacca tctctgcagc tacttcttac aacaaacaac acaaattaat 240
 aaacattaca aaaaacaatt gtatggctta tgtaaataaa tgtatcaaaa tcaaataat 300
 aaatacaaaa ttacatctga caatgttaat taattctctt tcatcatgat cattacgatt 360
 agcatgaacg tcgaaggctt tttttcttc gacaacatta tgagtgat 408

<210> 21930
 <211> 264
 <212> DNA
 <213> Glycine max

 <400> 21930

 tgtctgcaag cttgtggctt gttcacccat ttgtgtgtaa ggtaggaga tttatcatag 60
 gaaaatgtac tgcatcatta gaactggata ggacaaggct cggttatcga actaccagac 120
 atggagagcg gtattttaat ttttatcatg ctgtaattgt aatgctaggc ggataggcta 180
 atttcaacaa gagacatctg gatgcaaagt ttaatttgaa ttatgccaaa ctcgccagac 240
 atcgggtgta ggtatctgtg cctt 264

<210> 21931
 <211> 414
 <212> DNA
 <213> Glycine max

 <400> 21931

 tcgagccaaa atcccaagtc actataaacc ttgacttata gtgagaatgc ccatccttgc 60
 cctcagaaga aaacaaaaca aaaaaagaaa gttcccgatc aaggattgga agaaagcaaa 120
 agaagaaaat tcccaatcaa agattgggag aaagcaaaaa gaaagaaatt cctgatcaaa 180
 gatcataaga aaacagaaga aatatgcaga aaggtctttg gactagacaa tatatgaaca 240

atacagaatt gtcaccacca aataaggaaa gaaaggaaac cacgatatga agtgggtcctc 300
 tccctttgat aagaaagggtg acttttctgt ctgcactaa acaaaaacag aaaatgaaaa 360
 ggccaaaaca ctgagagcca aatttcccac caaaaacacc attcccgata aagt 414

<210> 21932
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 21932

atctgtatat gtatcatata actattagca ttatgcttct aagtttcttg gaaaacatag 60
 aaggtataga gttagggtctt cattaagaac tgtctgaccg acaaaacaaa cagctagtct 120
 atcagcatgt aacttgatgc catgcaagtg tattcagtaa aaggctttgt acttttgact 180
 ctttgatggc cgtgatgcca gattgtgact tgttggcata gaatctctaa gatataccaa 240
 acagtgaggt tttggctctt gaaatggtgg tttgaatgcc ggaaggatct tgtgggtgcta 300
 gaaagaatgc ttgagcagct gatcttgcca atgccaaaag gagaatctag acttgt 356

<210> 21933
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 21933

tggtgatagc ttgtgatgtt gcttgagcat tgagttttat ttatttttct gtggagattc 60
 acgtcacatt ggaaagtga atcaaaaccc aatcgaaagg actcacgatt catattaaaa 120
 cactaagaaa tgagtgagtt atatcctatg ctagttagcc ttgttgctta taaaagttg 180
 aataaattat gttgcatgat ttgcattctc aaaattttat ggacatggga tctgaatgag 240
 ttcgattata tataaaatta acacattctg agctttcttt aaatgtaaaa atatgctcat 300
 tttcataa 308

<210> 21934
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 21934

ctataaaact cagcttctaa acttgtaactt aatgaagctc ttataccatt tgtaaaca 60
 gtggcctcag atatcttaag aaggggggtt gaattaagat atcacagact attccccaac 120
 taaatattct acttttaatt tgatccaaca acccaaaatt ccctttaaaa atgaactcct 180
 aaataataat gcaaattaat tcttactgaa tagaataat aagcaataaa caataaagga 240
 gtttaagga agagaaaatg caaactcaga tttatactgg ttcggccaca cccttggtgc 300
 tacgttcagt cccaagcaa ccgcttgag agttccacta tcttgcaaaa tccctttaca 360
 agttctgaac cacacaagga caaccctcc tttgtgttca aatttcttta caacaag 417

<210> 21935
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 21935
 agtttttatg atgtcattat atacactctg acaattaata gcattttagg ttaaattcct 60
 ataaataaaa gcaacaatga tgcgcatagc ataactctaa ttctaaaaca tatcatgacc 120
 tatatttatt acaagaattt aatttataga aatttaaagc cttttcttct attttccatt 180
 atataaataa taccatcata ggaatctttt ttatattatt atctaagat gtggaaaaac 240
 atatcaatat ccatatgcac atgtgcatgg aggacaaaaa gcaaatatgc atatttgaat 300
 catccagcca tagatgacat gga 323

<210> 21936
 <211> 236
 <212> DNA
 <213> Glycine max

<400> 21936
 cccatgcggg cacatataat ggcgtaacat atggggcgag aaccttggat gctcttccaa 60
 tcatttgcta catgatcaat atcgttttgc aagataacaa agcatactct tatgtttcag 120
 cccctatctc tatccgtaac tacgattgaa tgcgtctcgc tttcatgatg acgtaccggg 180
 tcaactgacgg acttagagtg cttgccttgc cgccatgcta acttattata cgtgat 236

<210> 21937
 <211> 373
 <212> DNA

<213> Glycine max

<400> 21937

agctttgact tgagtcacatca agagattata aatatgtgac catggcatga gtttcaaaaa 60
tgatcaatca tctttgaatc atctatcttt caatctttct tcaatatcat atctcaaaca 120
tctttcaatc aatctttcaa tatcattcta caaaattttc tgattcattt ctcttcatct 180
ttctaaaagt tttttatcaa cactttctct tccaagaaaa gttctttggt caaaaacttg 240
tgctattcat ctttttcatt ctctctttcc ttggcaaaa gaacaaagga ctaaccgcct 300
gaattctttt gtgtctctct tctcccttac aaaagattca aaggactaac cgctgagaa 360
ttcttttgat tct 373

<210> 21938

<211> 424

<212> DNA

<213> Glycine max

<400> 21938

agctacaaga gcgtgggaaa gttagataga aagtatgttc tactgatatg tatagcattg 60
tagattgttt tcattgctga aaaagttgca tctttattta tccaagatgt gtataatttt 120
aggttttgtc atttttttat gggtagagct tctttcttta aattcttctg ccaattatct 180
tcacttgctt gtattaattt gtttagaagc tataactaaa attagttatg gacttgcggg 240
agttggttca tgagtcctaa aactcttgcc acgaaactaa tattacttgg ctagagcaaa 300
actaatatta ctcttgacaa attttcctac tgggtagaca agtatccaga gggtataagt 360
agtatatact ggtttaagtt cgacaaattt ccttataata tgtcttcaaa attccaaatt 420
aact 424

<210> 21939

<211> 383

<212> DNA

<213> Glycine max

<400> 21939

agcttgatata taattatcat ttgttttggc taataacaaa ctgaacgtta cattgttaac 60
attagatagt gaatatctat cgactagtga atagaatgaa atcttatttt agttcggtat 120

ctaattttac ctttctcaat aattaaagct tataatcttc taactcccgt ttcgtcttta 180
 aaatgtatct ttaaaattta tgagtttaat aaccatttta gtatataaaa atttacatgg 240
 tcaattatca atcaattaaa agtcataaaa tcattctcat tataattttt aaaatagtta 300
 tattataaaa ataataaatt tatcatatga gatgctttgt cattgatctg tgattgaata 360
 attaggtgtg ttataacttat tct 383

<210> 21940
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 21940

agcttgtgtc tctagttcct cccgaataaa tctttgtgtt ttagtggtta attatctatt 60
 taatcaatcg tttaaaaaaa tattgttaga atataaaatc aattagacat ttgctttgt 120
 gttaataaaa acacggaaaa aataaaatat gacagataga aaaggccgaa gaaattaaaa 180
 aaagaacaaa aaatggaaaa gaagtgaact caatcctatc ttactctttt tagtgtggca 240
 tgggtgtgatg accttgctct ctgccattta ccattttcat catagcaatt catctttaca 300
 gcacatcatg tacgtacctt atggctctat gcgaatggat taatt 345

<210> 21941
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 21941

agctttataa gtgcgggttc tgttgacaaa ggtcaagcgt tcgcgatatg cgaagatgat 60
 attccgagta ctttggattt ggtacgacca tgctctcctg atttccagct gggaaattgg 120
 cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaacctt tacggtttta 180
 aaagctctat agttgggcct aggcctttaga gctttcattt tgtaaggct ttgtgtcttt 240
 tgtttttgaa tttataatac aaggatcttt ctcatctgt tcctggtctc taccattct 300
 cattcatttg catgtttact tctttttcta aaacggcaga ttcgatgacg agtccccga 360
 aggtactaat acc 373

<210> 21942

<211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21942

tagaatggct agacatgata catgtcangg tttggtttgg ttcaaagctc tgagaatggc 60
 tagacatgat acatgtcagg gtttggtttg gttcaaggat aaaagggatg cccacatta 120
 tttccatgac acaaatgcaa aaatgatgat ttggaaactt catgcaaaac tggatcatgca 180
 tgcacctatg tggacactca agtgtcaaat ttttatggctc atgtgatgct aggactcaag 240
 attcatttcc tctattttaa atcaacccaa tgtttccaaa atatgttctt ttatcaattt 300
 gtgcattcat ccaagtccat ttcggggctc cggtgaaatt tcacagcatt cacccttcag 360
 gtgtagacac atttttcaaa aattggttat gatcaatgaa ttctttttc 409

<210> 21943
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 21943

agcttttcta atttattcaa taagatgcat gaataattta atcataaatc ataaattcca 60
 tacatgatgt aattattcat gtatcttatt gaatatatag atcttatggg tatttcatat 120
 aattagttaa ttaactgggtg attattttct gaccaagcct ggtgattatt tcatacgttt 180
 agttaattaa ttgattttgt tttatatattt atttattaat ttttcataat ggagatgaat 240
 tctagacaat tcatgtttga aacacaggat gcattgttta gtagcattta ctttgtgatc 300
 tgtgtctcag tttgtgttgg aaagactagc tgtactcagt ctactgtgat ttgttttact 360
 tcat 364

<210> 21944
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 21944

ctcttcacat ttgaatttga atttcaacgt tcaaaggcac tggtaatcga ttacaaaaac 60
 attgtaatcg attacaactt tttgaaatca gttggaacgt tgtaaattca tttgaaaact 120

ttttcaaadc cattttgcta ctggtaatcg attacaacaa tctggtaatc gattaccaga 180
gagtaaaaac tctttggtaa acatgttttg agaaaaatcc atgtgctact caatttttga 240
gaaaaacctt ttcatactta tcttgattaa gccttctctt gattcttgaa tctcgagtct 300
tgaatcttga tctcttgaat ctgattctt gaaatcttgg tctcttgact ctgattctt 360
gaaatcaaac ttccttttga atcttgaaga gttcttgaat ctat 404

<210> 21945
<211> 382
<212> DNA
<213> Glycine max

<400> 21945
agcttgcttg tggagctttt atggaggctg gatctttgag gtgagaggag gcgccatcca 60
ctatggaata agccatggaa gaaggagctt cgccaccaag agagtgcctt ggataaaaag 120
cttgagagg gtgcttcaat ggaggaaaag aaagagagag agaaagagag aggggggagc 180
atgaaattga aggaagaaaa gaggaagaga agttgaactt tgaagtttgt ctcacaagac 240
tctcatgcat caaagttaca acaagtgtta cacatgcttc tatttatagc ctaggtagct 300
tccttgagaa gcttctttga gaagcttctt tgagaagcta gagcttagct acacacacca 360
ttctaataac taagctcacc tc 382

<210> 21946
<211> 424
<212> DNA
<213> Glycine max

<400> 21946
aaccgataca ctaagtaagt taccaactca attgtatgct agtcaaccgt taccttcatt 60
tgttttgcag gttacagggt gcacactttg tgggtggagct catgggccag gcttgtgtat 120
tcccactgaa gaaacatctc atgaagttaa ttacatggga aaccagccta gacaaaactt 180
taatgtagtt ggattttctg gatttcaaca tggccaacct taccagcagc ataatcaatg 240
gagaactcac cctagtaatc agttcaataa agaccagggt gggccaccta ataggccaca 300
acaacaaggg cctagcttat atgagagAAC aaaaagctg gaagaaactc ttgctcagtt 360
tatgcagggt tcattgacta atcataagag cacatagtca gccataaaaa atctagaggt 420

ccag

424

<210> 21947
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21947

ttatgcaagc ttactctcac ataaagctat atcagaacca gacattacta atgaaaatta 60
ccaatcatcc tttcctttgt ggaacttta atcattcaaa atctcaatgg aagcataaca 120
attattcaca gaaaagttca ttgctaagtc aaaacaagaa ttcattcagga taaatttagg 180
acaagatata gctaaaaatt aaacaagcta tcaaaatgag gctagtacta tagcacatgc 240
ctctttgngt agaatgtaca aactaagggtt acaaccaaaag tcaactacctc aaatgggtta 300
atccatgtgc atacacaaaa ttaagaagat agtccccttt aggtagacat atccttaact 360
tagtatgttc c 371

<210> 21948
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21948

tattagaaat ttcatgtggt catgtgataa agaccttagg aagctaatta ttgtctcccg 60
gaagaagatt tacagacttc ttcaggaagg gggttgggtt gtagatcaat caaatcgatt 120
aaccgagcat ccattcttgc acatacttga agcatgatga ccaatgatct tgggctaagc 180
aaataaaagc cagccagagt tttcaacgat aactaccgca tgcgggggta tattaagtct 240
tttatatggt tggtttgaag ctttttttga actcgggttag ccaaaacacc ttttggatgc 300
ttggcaatgg caaaagaatc aattntttat gcgataattg gattcaacaa aatattgctt 360
caaccttgaa tattctagaa tcttatcaac aacatcttca agccttagt 409

<210> 21949
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 21949

agcttttggtc ctattcaaat agccataact tttgacatgg gggtagcatt gaggcccatg 60
 atatatcgag aggctcgaaa ttgaaaaatg gaagttctcg agaaattcaa atggtcataa 120
 cttttaactt ggatgtccga ttcacgcaca taatatatcg agacacacaa aattgaaaaa 180
 tggaattctc gagaaattca aatgttcata acttttgcct cgaatgtcag atttaggcac 240
 ataatatatc gagacgctcg aaattaaaca agaaagctct ggtccaattc aaacggccat 300
 aacttttgac atgagtgtat gattgacgcc catgatatat agagacgctc gaaatngaatt 360
 aatggaagtt ctcga 375

<210> 21950
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 21950
 tcattgccta acaagccaac ttacaacagc aagccttatg agactcatca taaggatgca 60
 caggtcaaag ttgagtatgt gaaaagattg tatgaccaag tgaagggtgca aattgcaaag 120
 aagaatgaaa gttataactaa gcaagccaac aagaaaagga aggaagtggg acttgaaccc 180
 ggtgatgatc ctggacattt gaggacaaat gttttccaag aaggagggaa tgatgagaat 240
 catgaaacag gccaaatata gtctaaaggc ccaagtggag aaggacaaag cccccgagtg 300
 gagaaggatg aatgcccaag tggagaagga tgaaggccca gaggcagaga cactatcaag 360
 actattaatt gttgctgaag gcccaaacta atttgaaggc ccaagttaaa ta 412

<210> 21951
 <211> 540
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21951

gagatgcata cacacgaatc gaggaatgta atgacacgaa ccgcatctnt taaatataaa 60
 gagcagtaag atgaaccctt gactgacgcg ctcgatacac tgggaagctc agaanacaca 120
 agccactcac cgcgggggagc ggaatatgta aatggaagtg ttttgcgaaa cgctaggcac 180

tcaacgaaga attggaaaag aatcacaaca aggaaaaaagc ggtaggaaca gctaacaacg 240
aagccaccac agctataaag acgatctggg gacaccaatg caagacacgc cgagcaagca 300
acagacgtgg gagacacaac gccaaagatta gccgaccacg ctatgaacag acacaagagc 360
gagcaccctt atgtgaaaat aaccgccccg cgcataaggc ccatcgagc agacgtgca 420
agcaacttaa acaatgaaca ccgtggagga gaaactcgag attccatggc ccagcaccta 480
gaacacggcg ccaccaatcc cctttgcacc gaagaatacc gatggatgaa cacggggacg 540

<210> 21952
<211> 542
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 21952

aaagaatggn nnaccagccc accacnccga cgcgnnanga ngnggaagag ggagaaacaa 60
gacgcaacan aacagcaccg gagnaantt tgagccctgt gaagccctga caactcnagg 120
cgaaccacgc gcagccccgg agaccctctg caggcaagca ggctgtctgc aatcatgccc 180
aaaagatgca tgaaggactt caataacaga tcaagacgtg catacaggac ggaacgactc 240
acgtacatca agaagcaaca gaacacatgg ggagaaaaca gaaagcgaaa aagaacaggt 300
gaccatgagg tgaccgagcc aggtgaacat agacaacgac ggagacaaca acctgaacca 360
gataagtacc tgcactagcc aatgcgcgag acggagacga atgagcaaca ataccaggat 420
gggccgcagg agacacggcc taccagcgaa gcacgggcga gcagagcaaa aacagagcaa 480
taaaacaacc ggacagaacg ataggcggga acaggataag caatgcgcag atagacggtc 540
gg 542

<210> 21953
<211> 126
<212> DNA
<213> Glycine max
<400> 21953

tgttcagaat tctaaagtaa tctctaata ctaatgtcac gtgacattct aagttgagta 60
gtgattaaca ctttgattta ttggattgat tatagaacta atttctttta atctcagatt 120

caatca

126

<210> 21954
<211> 374
<212> DNA
<213> Glycine max

<400> 21954

agcttgttga gaaaagggtc aagaagaatt accatcctgc ttgggctgct gcttacattc 60
ttgacccgct ttacttagtg agggacacta gtgggaagta ccttcgcccg ttaagtact 120
tgacaccaga acaggagaag gatgtcgata ggctcataac tagactcggt gcaagagatg 180
aagcgcataat tgctctgatg gagctcatga agtggaggac agaagggtt gacccggttt 240
acgtcaagc tgttcagatg aaggagaggg atccggtcac cggaagatg aggattgtca 300
atccacagag cagtaggctt gtgtgggaaa cttatttgac tgaattcaag tccttgggga 360
aagttgcagt gagg 374

<210> 21955
<211> 411
<212> DNA
<213> Glycine max

<400> 21955

tagaagacac attcatgaat aatgaccaat tgggtgttaa gttccaagac ttggtggaaa 60
ataaaagtca tacattcact agattttgtg atgtgttatt gcattagaat catttttttc 120
acaagatgct tatggactat atagtctttt gaaaattttg aaagtacctg taagagaacc 180
aaacaatgat aagttagtac ttttctaate aaattggaca tatcactctt gtaagcatat 240
actgataaat tgagaggagg tccaattatt tttaaatagt cttaatgggtg gcataagggtg 300
agttgatgat gatagtagac acttataaac attaatgttt aagtgaatta taactcaagt 360
agagttttta tacttagtga caaatgtgtt cttgtgggag gtgcttactt c 411

<210> 21956
<211> 403
<212> DNA
<213> Glycine max

<400> 21956

ttagacaaaa tggatgagtt ggagagatgt tcatgttatg ttgattgaag agtttcaatg 60
 ttgtttatat ttacatatc atctgattca aagtctgac cttttgatgt agtgtttgcc 120
 attagaaaaa ggttggcttt ttcttcttct tcttcgattt cctcatcgaa tgatgtgtca 180
 tcttggctctt cccaagtgt cattagtact ttgttgcct ttggcttgaa gtaccttttc 240
 ttgtggtatg tcttttcaag atctggatat tctgacttga agtgctctgg tttcttacac 300
 ttatagcata tgatggaact tttatcccta tctttccttt ctttatatgg attcttggat 360
 cccttccact ttgattcgtt ccctttcttc cacatgttcc tta 403

<210> 21957
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 21957
 agcttgata atggctagac atgatacatg tcatggctctg gtattgggtca aggataaaaag 60
 ggatacccca cattatttcc atgacacaaa tgcagaaatg aagatttggga aattttatgc 120
 aaaactgggc atgcatgcac ctacatgggc gctcaagtgt caaattttta tggtcatgtg 180
 atgctagggc ttatgattca ttttctctat attaaatcaa cccatatgtt ccaaaatatg 240
 ttcttttata aatttgtgca ttcatcttag tccattttcg gcgccccggg aaatttcaca 300
 gcattcacc ttcaagtgt gacacattgt tcagaaattg cgtatgatca atgaaatttt 360
 c 361

<210> 21958
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 21958
 gtgctttatg cttaaaagcc acacactgtt caatggagtg tcatgggaca ccacatgat 60
 aggcgaaatg aatgataggc gcatgtaatg ttgggattat accatcgggg aactagaggt 120
 tcatagatct ttcttgggct tactattgct atttggttat caagaaagta tggtagtagg 180
 ttaatgtatg acattggaat tggggcaaat aggactgggt tcttttcttg gaaatctctt 240
 ctgggttagt gtttaggata ggattgggag tagtgtttgg tctatgttgt ataaggggtg 300

gattctgtgg gtgattttgg ggtggtctat gagggtgatt ggggaactctt ggtccaacgt 360
ggactgggca tggggagggt taatat 386

<210> 21959
<211> 384
<212> DNA
<213> Glycine max

<400> 21959

agcttttacc ttttttattg cctgactggt acaacttaca agttgcaacc catttcttat 60
agttgttccc cctcttatta tggtgtttgt tttgagaatg tttcttggtt tggctcctta 120
gaattaattc tctctctctc tctctcaatc ttggatcact tatctacttt gaactatttt 180
tcttgatgc actgagacag cataacttat gcttgatat catgcttcag tctgagttca 240
gtacaagttc catatctttt tcattttata attcgctttt gggatgtgca ctacagggct 300
ctcagttctca gagctaaatg tagcacaggc aaattttgat aaagatgagc gtgtgtactg 360
tgtgcatgt ttctcacttt tttt 384

<210> 21960
<211> 425
<212> DNA
<213> Glycine max

<400> 21960

agctgtaaga gtttaacaga ttgaaaagcc cccaagttat ttctagttag agtgtatttg 60
ttttaaatag tttagtagct tacaagccag ttaacatttg accaaaaata agttattaaa 120
agtgtttggt tagaaagttt ttcttgaaaa aactacacca agttaaaaat ttttaattga 180
taagttaata aagtagcgta tgacttataa gagtgctata ttttactctt gtttaacttct 240
ttttttaaaa aaatgacaac ttattttacta aatattttca tttcatgcag tctgtactct 300
gtacattcat gggcaacctc gtagtacagt tgagacgcgt gttgtaagat attaaaactc 360
tgtgaaagtg gcttgccata tttcattttt aagcatatat atgtggatga agcttgatat 420
cttta 425

<210> 21961
<211> 290
<212> DNA

<213> Glycine max

<400> 21961

ggtaatgact gtgcctgaaa ccagctatgc ctctgcatg aaatttaagc tttctcctgt 60
ggcacttggt attttactag gtaactatcc acctttactt ggagtgtccc aacatagtgc 120
cttcaacgcc gggcgctcca tgacctctac ccgcctagtt tccgtcagac aaaaggggggt 180
gtattctgca gaggagtcct gcaaaccgcg ggacgtgcaa cccatcgaat aatgcccttg 240
agtgcctctt acatgcgtcc aatactttct actgattcac attgacatcc 290

<210> 21962

<211> 380

<212> DNA

<213> Glycine max

<400> 21962

agcttgaag attccactac gattaaaggg ttcctctcgg tgtgggggtt caacggagag 60
ctacggcggc ttatggcggc caccggtggt tgtgggtggt ggagaagaag cttgggacgt 120
tggaatggt tttggggaag aggaagagaa aggaaagact gtttttccaa ggctacacga 180
aaaataaggc ttgcaacact caagtgttct tgctctcggg aaaggaagcg tcttgaacac 240
accagaattc atatcgcaa tcgcaacagt cagatcgtgg aaagctgtcc tatgaacctc 300
cagaccaagt ttggagatga tccaactggt acaaagtca gaacgggtgtt ttaccgaga 360
gagcttcaca cagcttcctt 380

<210> 21963

<211> 179

<212> DNA

<213> Glycine max

<400> 21963

tatggactta ccttgaatta attcctttgt taaccctttt gagccttggt tccctttcct 60
tgatttgaag ctactacaa gccttaagtg aaaaaccatg atatcaccat atccttaagg 120
aattttggag ctttgaatt gttttgggaa taagtgtgtg tgtgtgtggg ggggggggg 179

<210> 21964

<211> 382

<212> DNA

<213> Glycine max

<400> 21964

agcttaaaca ggttttagctt gatggatagt attagaagat atgaaaatat ctaattatat 60
tttaaagtat tttctattat gctttggtat taagtggat cctatttccc cgttttctct 120
taggattggt tacatttcct tatcccatga tttagtacct agtagcccat tcttgaccac 180
aagggatgac tccaaatact cttaatact taagcaaact ccaaaataaa tattagacaa 240
acaaataaga acaaacaagt cttaatcaaa ggagtatact tccatcatcc ttaacatcat 300
agccttaaaa gcctattacc ccaaccacaa aggaacatag agacaaacta actagacctc 360
tccattcccg tttacattat ca 382

<210> 21965

<211> 380

<212> DNA

<213> Glycine max

<400> 21965

ttataagcgc ggtcttgga aattggtacg accatgccct cctgattttc agcttggatt 60
tggtacgacc atgccctcct gatttccagc tgggaaattg gcgagtggag gaacgctccg 120
gcatttacgc gacgagcata atgtaaacct ttacggtttt aaaagctcta tagttgggac 180
taggctttag agtttttctt tttgttaagg ctttgtgtct tttgtttttg aatttataat 240
acaaggatct ttcttcatct gttcctggtc tctaccatt ctcatcatt tgcattgtta 300
cttctttttc tgaaacggca gattcgatga cgagtcctcc gaaggtacta atacctggga 360
cccgtttatc gacttcgagc 380

<210> 21966

<211> 366

<212> DNA

<213> Glycine max

<400> 21966

agctttaacc tcatcgtctc tcacagtctt tagatttggg agccaatcca atccttgtgt 60
ccggactctc agccacttat gatagccgcc gatgctccca ttactgcttc ccctaagctc 120
tttgtccttt cttcacaccg catcacatgc cttgtgaatt ccttagagta ccctcgcat 180

ggggtcactg aaaccccggtg tgatgaaagg cgtgatgctt tcgtctgatg tcactcctct 240
catggggtag ccaagctgtc ttatggcgag gacgggatta taattaatac aacccttgt 300
tcccatcaag ggaacatttg gacatccttc gcatgaagat agaatcctga ttcttccttc 360
gttcta 366

<210> 21967
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21967

catctccagc ataatgggta attgtgaaaa agtctcatga gttgagggaa aatgctgtag 60
aaaacaagaa tataattaca atttcaacta ttatataatc aattaataat gcgaccaca 120
aaagcatatg gattatggta aacagaagat ttcaaaaata actaaagaag taagaagata 180
atacacaatg ctatattaac tgtaattgtc aatcatatta tattcggaat aaaagccatt 240
aaccacagga atgcttttca aaacaaaaaa taaaacaaaa gaatgtttgg aggtcacagt 300
cacagtaatg tagaacctgc acagatcgaa ccaagcatac gaattctaaa tctaagaaca 360
aaaaggaaga aaactacaca ttctcaagct tacatctnca gcataatggg taattgtgaa 420
aaag 424

<210> 21968
<211> 380
<212> DNA
<213> Glycine max

<400> 21968

agcttattaa aatgaactta caaacttata aaaatattac aaaccgcttt tataagttaa 60
aataaactct accaagattt ttatatattt caagccaaaa gaaagtataa ttgcaaaaag 120
cattttccct tattaagggg ccatgctaaa gagtcaattt atataatact ggaagcatag 180
aagcagtacc acataaacia accctataca agtttgcttt cataattgac ttaatctgtc 240
atgcggctga gtggctgccg tttagcataa gattttgaca gaatcaacat catccaaacc 300
taataaggta ggggttagtta catagattca attccatttt gtgttatact cttatattcc 360
aattatatgt atgaaaaaga 380

<210> 21969
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 21969

tgtccatata tagagtcatt acttgcattga ctttgtatta cgttcacgaa atattttaagc 60
 atgtataatt aagtatctcc ttgaaaagta ttgaagattt ggtccaaaat aataagaacg 120
 catgttttgg cgtatgcatg atattcttaa tgggtacaagg tttgtaaaag tggcacttat 180
 gtggtcaaaa taaacttgta gaagaagaaa gttacgacca gtgatgattg gcatctttaa 240
 tcaagtgtgc acaatagggt tatttcaatt agtgcgtctt tttgtgtatc aattatgcac 300
 ttaattggct ttaagattct ccgtccaagg aaatattgtg ggcgcgtcat tgtgcaagtg 360
 aatgagacag aaaatgattg gagagcaaga atgaataaca catgcaata 409

<210> 21970
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 21970

agcttgaata aaataatgga aaaaagggaa aaccctttgt atttttaaaa ccaaaaagct 60
 tttctctctc ctactcagc caaagcagaa attcagaagc cttttctctc cctctctcac 120
 gtagctttct tcttcttcat tctccattga agcttcaagc aaagcttcaa cctttggcca 180
 ccatttctgc cccaaatcgt gaaaggagag catatttgga gtcgtgaagt gcgtggctac 240
 gagggggact tcgaaatttc aggggtgggt ggacttctat cccttttgat ttcgtgggt 300
 atgggggttt gcgagatatg 320

<210> 21971
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21971

ngagcgtagt ggaagaaaag ttcttgatat agatttttcc tccttctaga tatatcagtg 60

caaagtcaga tgtttccact ttcaagttaa aaccagatga acccatctgt gaagtctgga 120
 agtgattcaa atcattgttg agaaaatgtc ccaatcatgg ttttgatgat gttacccatc 180
 taagcatatt ttgcaatggt ctaaggccta aaactaagat gattctggat gcagtcgcta 240
 gtggaacaat tatgtttgta gatgttgaac aagccacaag gataattgat gcctttgctt 300
 caactgatca ccaatctcag cataacagac aatcgatata taaaagagga gtgttgatc 360
 tcattctcaa gggctcttca atggaagtgt ataaacatth tg 402

<210> 21972
 <211> 331
 <212> DNA
 <213> Glycine max
 <400> 21972

atgataacga agaatatgac gaatagctca taagtcacga acacttcatg ataacaaaag 60
 ctgacaatct caagaatcaa agaatgagct taaaattgaa tcatgtacac ttcaacgatc 120
 aagaggaaaag ctgaattcaa gaatcatggt tcaagatcca agttccaaga tccaagatca 180
 agactcaaga ctcacgattc aggaattaag agaagactcc atcgagataa gttctaaaag 240
 ttttttttaa aaaaaaaact ctgaatagca catgaatctt tctcaaacct tttacaaaaa 300
 gttctactct ctggaatcga taccagatat t 331

<210> 21973
 <211> 716
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21973

ggagactgga cctgagactg tacctttgan tcccntnaan tctanatact cagctaaatg 60
 cgctagtgat gatcgtttcg tacacanatt ttacctaggt ggagctggat ttgttccaga 120
 ggctaagtgc aaagccttta gatgcaataa acccggtcga tactatacta ggctgtacg 180
 cattatctcg ctgcgggaga ccaatggtaa tccggatcaa gagtgggtca ttcgatgagt 240
 gaggtggagc ctgaactatg catcattctg tctacttggg tcacatgtca attatagcaa 300
 ttctgtgatt catacactca catagtgcgt tcccacacta gcatagtcgg tcgtcgatgt 360
 gatctcttac acgacagtga cagctgcctc tctacgttat gtactctgtc attctcttgt 420

gatcaatatg catagatatc tgcagacgta atacctgttc ngctatgtat catcacacag 480
atgcatgccg gtagncgat cgtaacgact ctactcatcg cgcttagact cgacacatca 540
tgcattgtata ggcgatacat catcagctct acatgtctga gtaaaatcac ccatacaccg 600
cttaattgttg acgcaagatg acgtcataac tgctcctaac ccgtacagca tgcgacagta 660
gcagtcgtcg tacggttgaa cgggtcatct acttgacgtg gcgtacgtaa tctcgc 716

<210> 21974
<211> 321
<212> DNA
<213> Glycine max

<400> 21974
agcttgccgc catggaagtt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60
agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
agaagcggta tgttccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
cccaaggcaa caaggggggt gatgagtatt taaggaaaag gatgtgctca tgatttaagc 240
aaatattgat gaatatgagg aggggaactat ggctcgactt cttaatggtc tgactaatga 300
tatccgtgat cttgttgagc t 321

<210> 21975
<211> 310
<212> DNA
<213> Glycine max

<400> 21975
atttctcatg agtttccggt gttcttttcg agcgtgtaga tgacgtatgt cccggaatcg 60
gacatctgtg tgaaaagtta tgaccattcg atcttctcga gagcttccgt tgttcaattt 120
ctagcgtctc gatataattat gtccccgaat cggacatccg tgtgaaaacg tatgaccatt 180
ccattttctc gagagcttct cgtgttcaat ttcgagcgtc tagatgagtt atgtccccga 240
atcgaacatt cgagtgaaaa cttatgacca tgcgaatctc tcgagagctt gcgttggtta 300
atttcgagcg 310

<210> 21976
<211> 360

<212> DNA
<213> Glycine max

<400> 21976

tttttgcaag cttaatgata ccaaaacaag atgattatta tacacccatc tcactacatt 60
aatattaacg atgacataat ataattctaa gcatgtacat agaacacact gtaacatgaa 120
tctatcttta cgtcaatacc acaacaatct ataactggaa gtcttagtgc tgcttatgat 180
agattaacac ttatcatcac aactacatag caataagggc actatcaacc acattcacia 240
ctgacctgta atgaagggtc tgctccctgt gcttacacia ataatggga cagaattatc 300
cactgcagct gcaataagcc ttaccagcac agtcgaatct aatctgagaa caccaccctg 360

<210> 21977
<211> 402
<212> DNA
<213> Glycine max

<400> 21977

atgaccgatc gtttacaaaa tatcttttca acgtgttatt ctcttgcta aggaccaatg 60
cataggagtt gggattggct tggagaagat ctttatcaag atcaattgag atcagccctg 120
cactgtggcc catccacca aggttgtagc tctttatata tccccgcagc ttgcaatgat 180
tgacaatcat tgccgaaagt gatggagtat ggttgaacag actacacttt acaatcagaa 240
ttccaatgac tttatgcttt acagacgggt tagctaatag tgcataatg gcaccaaaca 300
tcacagctc ggcttctttt ctaacttctt tcattgaatg gttgggagga atgttgagga 360
catcctcatg atggttaagt ctctcccaa tgcagatct ct 402

<210> 21978
<211> 298
<212> DNA
<213> Glycine max

<400> 21978

atgccaatct cccctgcaa agtatcggg tggctctgtga cgttccgaca tgggtaagta 60
tgcataatg tcaactgatt tctgatacca tctattgttt gcagggatcg caccacaag 120
acaccagtg gaccgataa agttcaacag ggccctgagg tttccagctc tggttacggg 180
cctctatcag tctacaagg tgcccgtacc ccccgcaa ggtaacgtca tcatatgtaa 240

gtatgcacat cgctcaactg attttctgatt tcatcttaatt gttgcaggga tcgcgcct 298

<210> 21979
<211> 404
<212> DNA
<213> Glycine max

<400> 21979

tctacttatg tggcatggca ggcttctctc actttcttgt ctccaacgcg agctttgacc 60
actgttcttc cttcccgga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120
accatacttc ccacgatttc cttgggtatc tatcaggcta gttatgccgc cgttgttttt 180
gcctaaacct atcccgggtt cataaccgtt cccaacata actcgggcca tcattaccgc 240
tgcacggac agacaaggct gcccgaagag ggagtccacg gaggaatgc tgaccacctc 300
aaaagactgg aaagcagttt ctaacgattc ttctgcggct tccacataag gcatggaaga 360
tgggcagctt accaagatat ctctctgcc tgacacgatg acta 404

<210> 21980
<211> 532
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21980

gattgtatgc gnnnnacatc gtcncctcn cgactcaan annananttg nagagtaaag 60
tatcatatgt aataacntan cagtacacaa cagacattgg agcctattga agccttggat 120
gccatcgaac actcaaggcg aattcgactc gcacccgaga tcctataagt cttctgcagc 180
atgcagcttt tatattataa acagaaactt ctaagaaata agaaaaataa aggggaaata 240
agtaccggga caccacatta aggctaaaga taaaaggagc ttataacgcc tgcccatata 300
ttgcaatacc tataaagact tgaacgctta tctctacac taataattaa attatctaca 360
tttacaatat aattgaaacc taagacgcta agctcctct atgatgaaaa gactaaacta 420
aagccatata cacaattctc ttaatccgtg attaaacagc aacgctttac tttcacgcca 480
caacgaaaac aacaaactct ggcaataacg agcatatata gcaggaccag ag 532

<210> 21981

<211> 266
 <212> DNA
 <213> Glycine max

<400> 21981

accaacacta ctaatcgga tcatatatat cacactttac ccacacttta gtggaattta 60
 gtgaacataa agtttattaa gataatctat gagaatgtga aactaaaagg gtgtcaagaa 120
 tacatcatcc aataatttat aataaaacac gcatccttgg ctattttctc caatacacta 180
 tgcaaataaa agtggcgga aaatgtacaa ggtgagaatg ccaaagcttc tcttttacta 240
 tgtttaacct aattacacat gacttg 266

<210> 21982
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21982

agcttgactt tggtttagac atgattgata catgatttgg gacttgtaga aattgatttg 60
 ggcaagattg gatgaggga agtgtggttt tcgaaatatg ctctttgtgc agattttgct 120
 gtaaaattgt gcagcagaat tttgcacaag tgcagaaaaa tctatgtatt tgctggttgt 180
 ggaaagagta atgtaaaatg agttctggat gttttctagt agatcccaac ggtcacaatg 240
 taggcgtatg cactatagac ttccagtaaa attttgagat cgatccaacg gttaacgaat 300
 tggatcgaag gaattgttac tggngtcttt gaggagaaa agctgtaatt ttggttggtg 360
 tggtgagcag agttttctgc ctttgc 386

<210> 21983
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 21983

gagagcctaa ttgaaaatc atatgcacaa aactatgtga atttcgctca cgtttagatc 60
 cgcacggtct tgcaattcgt catgcttttc cttcgggtggc tttggcttct ccatctgtgc 120
 aattggtgga ttctccgctc tctggcggtg gccgcgctat tttcgccgga gcctcttctt 180
 tcgtttcatc ttattcttca ggtttattct catcttctgt aattatattt tttgtaagag 240

atgtaaataa gttgaaatga taatacaatt ttcttccatt tttgctttat tatggattcc 300
 tcactgataa gtatctaata gctgcattac aaatacactt tgaatcctca gccacgaaca 360
 ttatgacaat gaaaatgcaa caaacgtttc cacaatctaa agggcaggac aa 412

<210> 21984
 <211> 71
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21984

agcttgact tgaggtncca nncaagctcc cgagacatga atgcaacaaa gatcggaatg 60
 atcttaccat c 71

<210> 21985
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 21985

tgtggtggtc attctctacg ccattttcat cgctgtctgc atgtaaaatg acggtcaagg 60
 ctcttaagac agcaatgtaa agatgtaggg tatgataata gcaaggcaaa ttgaaataga 120
 atatgtatat tgttatttca ttgatccttt gcatgatata tataatacat gtacaagaat 180
 gtactatacc aattctaagg catgacagac gtgatccata atcagtggca tctgatttat 240
 tctatgcatt ataaggtaaa taaatataga atcaaggtaa cataggaaag taaatatata 300
 cacagcatat ttgcaatcat gtagaagata tttcctaata ctccccctca agttggtgag 360
 tgaatatcgt gaagtcccaa cttgttgccg aatgtcacia atagatcttt tcccatagc 419

<210> 21986
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 21986

agctttcagc caaaatccta actcaccata aaaaagagaa tgaaatttcc aatcaaagag 60
 aatgcaaaaa aaaaaaaaag agaaggaaaaa tttccaatca aaggaaaaag gagaggaaaag 120

gaaattccca atcaaagagt gggagaaaga aaaaaaaaaag aaagaatatt cccaacccaaa 180
gaatgggaga aagtaaaaaa aaaagaaagc tcctgggtcaa agaaaccaga agaaatgtgc 240
agagaggtct ttggaccaga caatatctga acaatacaga attgtcacca aatgaacaaa 300
agaaagaaaa ggaaaccata acctacaagt ggtcttctcc ctttgattac cagccaaaat 360
cctgtgcgtc ggtgacttgc tcgcctc 387

<210> 21987
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 21987

tcaagcttga agaaagagtc atagatgctn gtataaaatc tattttttat agtttggtat 60
cgcaatatgt attattgagc tcatcacctc acgaacgaat tctattaatt attttaatac 120
ggttaattct ttggacataa aacataataa cttgcatttt acatgcattt gaaggatcaa 180
atcagtataa agtaaaataa aggaggtaaa taaggagaaa ttgtttatct ttgaaggaca 240
taatgagaaa ttgttaagaa aataatcaaa tactactgcc cagttagata ctttgacttg 300
gtgccaaca gcaattagag tgcatacaaa atttctatct tgacttagtg tgcattgtgc 360
acagcaatta tagctttcaa cgggtcaaagt tctcactgcc acattaacta ttgttgccca 420
agtggcactt a 431

<210> 21988
<211> 312
<212> DNA
<213> Glycine max

<400> 21988

agctttgttc aggatttaga aatttccacc atgtttactc atcaccagaa aattgtagtc 60
gtggatggtg aattgccgag tggagattct aataagagaa gaattgtgag ttttgtgggg 120
ggtattgatc tctgtgatgg aagatatgac actcaattcc attcactttt cagaaccctg 180
gacacagcac atcatgatga ctttcatcag cctaactttg gtgggttcttc aataaaaaaa 240
ggtgggtcaa gggaaccttg gcacgacatc cattctcgac ttgaaggccc tattgcttgg 300
gatgttttgt tc 312

<210> 21989
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 21989

tgaattgaac atcggattga agaagagcgc gagtgatgtc gttgaggcaa tcgatgagca 60
 ccttctcgtc gattactgtc gcattgctca tcagctggag agcacgcgaa atgctccac 120
 ctaactccgc cagaaccatc ttgatcttct tcccttcaac aattcaattt ccaaattaag 180
 gtttgatgat gcaacaccaa cacggagggt tcagattcag attattggtc tatctctctt 240
 ccaccgccgg taaaatgagc ggtgcattat tgggagggaa aaaaagttaa actgtaacca 300
 ctacatacta atgggccttg gctcggattg agccttcata ttgtaacca tgatcatgtgt 360
 tgatccgtac gtaactgtat tacatgaaga agcttggtat gtggtgatgg aaaa 414

<210> 21990
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21990

agcttataag aacaaaattg ccttaatcat ttccaaatat gcatgtgaat tacgacgcat 60
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaag 120
 attataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240
 aacttttatt ttcaaaacaa ttaccatttt cttgaacata tcctataatt catagaaaaa 300
 catgcaaagt cgtacgtgca cacgatattg acccanaata ttaaactgaa aattcgatga 360
 aactaacaac attaacaat taac 384

<210> 21991
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 21991

atttaaattc aaatttccaa aagctgttac atacaatttt aacttctagt aatcgattac 60
 atactgtgtg taattgatta caacatttta aaatcaaatt caaaatttgt aaaagtgttc 120
 cagaaatcaa tttagccact ggtaatcgat tacatccttt ggtaatcgat taccagagag 180
 aaaatatcat atttttgaaa tttcaaaaag cttttgtaaa atatccttta cccaaaccta 240
 tgcagcatca attaaggaat tctttctaag atcctaggaa ctaagtacat cattcttctt 300
 gaatttctgg attcttgact tgaatcgcg ccatatttgg catcatcaaa actttatatc 360
 atatatgctt ctacaatctc cccctttttt atgatgacaa taatttgaaa tcaagat 417

<210> 21992
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21992

tttatgcaag cttataactca gagcatcctt tgctatacac aaaaaagggg gaaaaagtat 60
 cctcttgccct aaccctcat ttgcaaagaa aaaacccatg tgccatagaaa ttaacaacaa 120
 gtgaaagaag attagatctt acaccgaaag catgcaacac cttaaaaagg aactaccaat 180
 ccaacgtgtc gaaggctttt ttgatatctg actttactgc cattttacct caaattcttg 240
 taatgcaaca tatattatagc ttctaagtga gtgcanatgt agttgggttat acttttgccc 300
 ttaataaacc ctagttgttc ctctaaaatc ttaggggtta tagaagaaag cttgaaggag 360
 atttgggtgat gatattgaat 380

<210> 21993
 <211> 408
 <212> DNA
 <213> Glycine max
 <400> 21993

tgcaaagtta tgtctcgat cgttttaatc aatttctacc ttctcataat cgattacata 60
 attttttttg agtcaatgac tgattcattc aggagtctct gctttaatcg attaccatgt 120
 gatataatca attacttctt ttctataag tagttcagaa gtgaacaaga acactttaat 180
 tgattacttt gagtatctaa tcgattacat tgttcttgag ttgttttcag gttttaggaa 240
 gaacactttg atcgattaac aagataatct aatcgattat ttcatgaat taatcaatta 300

tcttgtagat ttaatcaatt acaagtgggtt ataattatatt tctctataaa taactagttt 360
 gtgttctctt caaaatacta cacaattaac actataagcc tctgaatg 408

<210> 21994
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 21994

agctttttga tttatgtgat actttcttga tttttcaatt ggccttgggtg aataatattt 60
 ccagaatttt ataagtagaa gctctatgca caatcatttt cagtttctaa tttggacaat 120
 ctcaactttt gagtcaagat gggcaagtac agtgctttat ttcttctgtc aattgtttcc 180
 tatttgggtca catttatcac caggagaata cctgtgcaga catcttagcg tctcgtgcta 240
 cctcatgatt ntttgtggag tatgattttt ttgtgggtggg actcataccc cagttntatt 300
 cagaggaatg ttgtaaatga taganatgct agacctaact ntagaattag gtagagtttt 360
 ttcttggat 369

<210> 21995
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 21995

gggaaattgt ctcccaaatt gtattagatg tatatatgta gtataattgg tgctttgatt 60
 ataattcact tgtaagcatc aatattttta aaggtccctc atttcgttaa atttcttaca 120
 tgggggttgat ggcatgtta ttaatcattt tacctatcta acataccaat tttaagtatt 180
 tttttatcac actggttgctc tggctaagtt ctttggtttg ctacacttat ctcttggtga 240
 ttcatacata gataatatgt catttgatag tatggttttg gtgtgggttg ggtagaaata 300
 cttgcagctg actaaagagt attggagtta ctatatccat tggctaaaat caaggttatc 360
 aaactagaca gcttacgtaa actcgtgag 389

<210> 21996
 <211> 346
 <212> DNA

<213> Glycine max

<400> 21996

ggtacccggc atatgtggta ctaagtggcg aacggggcgat ggtgcaagtc gactcttcac 60
atccacaaat cacacattaa tccaccatgc ccagttgccc accttcaact gagctcacgt 120
acttccacgt agcctctata ctggttcctt tcaacaccgg gtgccaatc attccttcaa 180
gcttccacaa cattcaagca attccacatt caaacattat gaactatcaa aaccaagata 240
cagggcatat gcataaaact ctctctaac acaaaccaaa ccacagcttt cttactcaat 300
acccagtac attcttttcg ttccaatcgt tcaccgtgga tcaactc 346

<210> 21997

<211> 402

<212> DNA

<213> Glycine max

<400> 21997

gctgctctaa ttacattgat gtttttattt atgggatgag attgtatgtc atttttgttt 60
taagaatagt atcccactgg taaaactaac tttccaaatg tttgccttcg caggaaatgg 120
ccccgaggaa gcttgccctca aagagggtcca agaaggacaa ggcatcagaa ggaactagtt 180
ccgctccgga gtatgatagt caccgcttta ggagcgcggt acaccagcaa cgcttcgaaa 240
ccatcaaggg gtggtcgttt ctccgggagc gacgcgtcca gctcagggac gacgagtata 300
ctgatttcca ggaggaaata gggcgccggc ggtgggcacc actggttact cccatggcca 360
agtttgatct agaaatagtc cttgagtttt atgccaatgc tt 402

<210> 21998

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 21998

tggtgcaagc ttctccccc attttctata aataggggga gaagtgaagt agaaatgggt 60
tcagccctt tggcacttct ctctctttcg aatttgctta ggaaaattat ttccgtgaag 120
aaaatccaag ccgaggtgct tccgtaacct ttccgagatg tntccgtaag caaatccgtg 180
aaggttttcg tccgttcttt accgttcttc atctgttctt cgttcttcaa tgggtaagtt 240

ttcgaatccg agactttcaa ttcattttctt gtttttttaa gctttcatct ttatttcggt 300
cattttctat ttcttttctt tcactgttaa cgcgctttta ccgtttattt aagccattnt 360
ctcacctaataaatgat 377

<210> 21999
<211> 410
<212> DNA
<213> Glycine max

<400> 21999

tgcctaatta acctgaaatt gagagaaaat gattattaaa cactcttaataaaaaacta 60
agtatttatt acctatactt aacagaaaat acttataacc ttacaaaata accataaatt 120
gggagagttt gatacaattt atataagttt tatacacaaa agttagtcattttcaccaac 180
taacagttgc cccaaattta cagttttgct tgtcctcaag caaaaagaga acaactcact 240
tgtcctcaag tgacaatgac atgcagtgat tatgtacgaa ggtgtatgct acaaagtgac 300
taattgcatg ataagagaat ggagtaaaat gccctcaaca cttgtcttta caacagttat 360
ctaaagacaa gaataaaatg taacctgaac agatagatga agttaggcat 410

<210> 22000
<211> 374
<212> DNA
<213> Glycine max

<400> 22000

agcttgacca atcccgaccc aaccgggca tagtcggtca gtgagaacct gtgatgtacc 60
taagcaggcg agtcctggc agtcaacaga taaaaggaaa acaagaccac aaagcaagga 120
ggcttggtggg ggctggccag ctatgaattt tgtgtaatat gtggattgtg gcctctggta 180
atcgattacc aagggtgggt aatcgattac aaggcttaaa attgaggaca ggaggctaag 240
atggtctctg gtaatcgatt accaaggggt ggaatcgatt accaggcttg aaaacgaagt 300
caggaaactt agggagcctc tggtaatcga ttaccagcct gtgtaatcga ttacacagag 360
gaatgggtca ctgg 374

<210> 22001
<211> 414

<212> DNA
<213> Glycine max

<400> 22001

taatgcggat caagttgatt cgcaagtttt gtgcgtatca acttgatctg cagttggttag 60
ggttctctga ggctgaatgt ggatcaagtt gatctgagag attcatgggt tagcatatgg 120
atcaagtaca aggtatatga ttcacaggag tattttogat gaagttcctt catgcggatc 180
aagttgatcc gcatgaatgt atttaaattt ttaaaaataa' aaattagttt attatttatt 240
aaaatgctat taaattaagg tttaggggta attatgagggc tgccttgtca tgtgcctaaa 300
aaggattata accacaagaa taattatttc cttggaaaag ataaatttta gtgacccta 360
tataacactc ctcccatgag ttagaatcag aaccacaaga tcgtgggctt atgt 414

<210> 22002
<211> 385
<212> DNA
<213> Glycine max

<400> 22002

gcttagagct aggtttgccc catgttaaatt tcttactatt cgcttgttct tgcctaagtg 60
attggctata tgttggcaca aattctggca aaaaattgac ttgttggctt ttactgtata 120
atgcctatgg cttttcctcc atgccaagat atcaccatgt gccatgtgac ggagctaggt 180
ttgctccatg ctaagtcatt gagaggttgt ccttcagtgg cgttattggc aagacatttc 240
acatttgtgc taaaaaattg acaccttggg attggttgat tttgtccatg gcttgggttc 300
ccatgctgag atatcatcaa cccatgccaa gtttagaagc ttggttttcc ctgtgccatg 360
gctttgactt gttcccatth tccgc 385

<210> 22003
<211> 777
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 22003

gatgctactg cnananacct angatgancg tttangcann nttgacgnng atttcttgat 60
gnnaaccttt tgcannnana ncnannannn nnannaannn nnanannnnt nancnacnag 120

ngcgacacna cgnanacatt tgtgttatgt atnacncgaa gntgtctatg ccacgcctgc 180
 acaacgngag acgaaacnaa ctgccgatga cagacgcgcg cgnatatat tctacgacca 240
 gcanacacat taactanact tcnatcctct ctagcaatag aattagacga cattatatac 300
 tgcngtgcgt tgattcgatg tacatgcgaa tgtatatgta tcgtgtcgtc acgatcacta 360
 gcctacgata tgtacgggat cttctcctgt accaatcata tagcattgtg attgttactc 420
 gtaaggatca cgtatgctcc gtggncgcta tctgtttctc acatctcatc accatgtgat 480
 ctactcatac gtgcacgtct acgtgcatcn ataagtgtag tacaatcgta ctgcccgctc 540
 gtatgtagnt agtatgtact aatctgagtg catctgactc tctaagtaat atggttgtac 600
 tcatgcatct catggtaaca taatatatga tactcggtc tcaactcgcgt tacttgctgt 660
 tatgatactg tgctgcatca taatgtatcg agtgactctg tcgcgtagan tatgtgttat 720
 ggacgtctct gttatcgtca ctgctntatg tgaatacaag ntntatatat ctgccg 777

<210> 22004
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 22004

agcttgcatt cctaattaaa tggatgggtct caaacttttg aataatatta gaaagggtcca 60
 gttacttcat ttaattatct attgttcaaa caacttaatt ttagtgggtta ataaaatttc 120
 tttaatgggc agataaaaaga ctaattttcca cattttatta gtggataaat cagaatacta 180
 atgcaaaaact aaagaaagaa cataaattaa tagaaaaaga taaatccatt atacattttc 240
 aaatatttca atcattttca tcccttatca cacaacttca aacgtgtgcc tagttgaata 300
 tcaactcaacc acttaacatg taacattcta attaaaattg tttttagaca acctttaccg 360
 tgggaaagta aagttttttt tc 382

<210> 22005
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 22005

gagtgtggan cctgacacgt agctatgtcc gcgctctata caatactcaa gcttagaatt 60

atacaataac attttttggc caaccatgat gtccttctta attatcatgc tatcatggaa 120
 cttcttgggc ttttctttgt agaacttggc attctcgtag gcttctaggc ggatctcatc 180
 taactcactc agttgcaact ttccttcctc accagcttga tccatagaga agttgcaggt 240
 cttcactgcc tagtatgctt tgtgctcaat ctccactgga agatgacatg cttttccaaa 300
 gacaacccga taaggtgaca ttcctatggg tgctttgtag gcagtcctat gtgccc aaag 360
 agcatcatct agcctagta tccaatcttt cctgcttggc tacacaatct tctctaaaat 420
 tctcttgatc tccctgtag aaatctctgc atgtccattg gtttgaggat ggtatgg 477

<210> 22006
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 22006
 agcttgaacc tacttagtac tttgaaagaa gacaaaatat gtgttttttt taaccctttt 60
 ttcgcttctc aagtattcaa tttattttgg ttgatatatg ttcattcaaa atagtcaa 120
 actcatgttt acaaataagt tgtagtttc aatgatattg attttgattt tttcaagagg 180
 tctccgttca aatttcataa atgaaaaaaaa tatgattaaa aaaaaatttt cattaaaaat 240
 gatccgttaa gttcaaaaaa gtaattaaaa tttatgtgaa tgtataaaaa aaatattgta 300
 ccaaacaaaa actaatcatg gtcaaatagc ttgtaaattg taatatagcc aaattgatta 360
 tacattaggt ttctatcttc acaaaa 386

<210> 22007
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 22007
 ctaagcttat ctttttaata agtcatattt tctttatgaa tgtgcaaaaa atttaactta 60
 tgcttaaaaa atttaattat ttatcaactt tattggacct tatttgttat gtaaacactt 120
 gttgtttcat gattgttcta ccaaaaacat actccaatga ccatttctta ataagaatca 180
 atgtttaata agttttcacc atatgaacac cttgtttgag atgccattag acacaaataa 240
 ataattcgtc ccacatagct catctttaat aataaaaaaa gtctaatagcc gatatttatt 300